| Item | Description | Quantity (m) | | | Total (m) |
|---|---|---|---|---|---|
| | | LL | SAZ | Catalyst PP | |
| Power Cable | | | | | |
| 1 | Cable without armor size 1*500 mm2 /Class 2 TYPE : CU / PVC / PVC | 3000 | 0 | 0 | 3000 |
| 2 | Cable without armor size 1*300 mm2 /Class 2 TYPE : CU / PVC / PVC | 0 | 1000 | 500 | 1500 |
| 3 | Armored cable size 3*120+70 mm2 /Class 2 TYPE : CU / XLPE / PVC / SWA / PVC | 1000 | 0 | 0 | 1000 |
| 4 | Armored cable size 3*95+50 mm2 /Class 2 TYPE : CU / XLPE / PVC / SWA / PVC | 1000 | 0 | 0 | 1000 |
| 5 | Armored cable size 3*70+35 mm2 /Class 2 TYPE : CU / XLPE / PVC / SWA / PVC | 1000 | 0 | 0 | 1000 |
| 6 | Armored cable size 3*50+35 mm2 /Class 2 TYPE : CU / XLPE / PVC / SWA / PVC | 1000 | 1000 | 1500 | 3500 |
| 7 | Armored cable size 3*35+16 mm2 /Class 2 TYPE : CU / XLPE / PVC / SWA / PVC | 1000 | 1000 | 1500 | 3500 |
| 8 | Armored cable size 3*25+10 mm2 /Class 2 TYPE : CU / XLPE / PVC / SWA / PVC | 1000 | 500 | 500 | 2000 |
| 9 | Armored cable size 4*16 mm2 /Class 2 TYPE : CU / XLPE / PVC / SWA / PVC | 1000 | 500 | 1500 | 3000 |
| 10 | Armored cable size 4*10 mm2 /Class 5 TYPE : CU / XLPE / PVC / SWA / PVC | 2000 | 2000 | 3000 | 7000 |
| 11 | Armored cable size 3*10 mm2 /Class 5 TYPE : CU / XLPE / PVC / SWA / PVC | 2000 | 2000 | 3000 | 7000 |
| 12 | Armored cable size 4*6 mm2 /Class 5 TYPE : CU / XLPE / PVC / SWA / PVC | 2000 | 1000 | 2000 | 5000 |
| 13 | Armored cable size 3*6 mm2 /Class 5 TYPE : CU / XLPE / PVC / SWA / PVC | 2000 | 1000 | 1500 | 4500 |
| 14 | Armored cable size 4*4 mm2 /Class 5 TYPE : CU / XLPE / PVC / SWA / PVC | 2500 | 1500 | 2000 | 6000 |
| 15 | Armored cable size 3*4 mm2 /Class 5 TYPE : CU / XLPE / PVC / SWA / PVC | 2500 | 1500 | 1500 | 5500 |
| 16 | Armored cable size 4*2.5 mm2 /Class 5 TYPE : CU / XLPE / PVC / SWA / PVC | 1000 | 500 | 500 | 2000 |
| 17 | Armored cable size 5*2.5 mm2 /Class 5 TYPE : CU / XLPE / PVC / SWA / PVC | 5000 | 3000 | 4000 | 12000 |

| Item | Description | Quantity (m) | | | Total (m) |
|---|---|---|---|---|---|
| | | LL | SAZ | Catalyst PP | |
| 18 | Armored cable size 10*2.5 mm2 /Class 5<br>TYPE : CU / XLPE / PVC / SWA / PVC | 8000 | 6000 | 6000 | 20000 |
| Cable earth | | | | | |
| 19 | Uncoated earth cable size 1*70mm2 / Class2<br>TYPE : CU | 1000 | 500 | 500 | 2000 |
| 20 | Coated earth cable size 1*95mm2 / Class5<br>TYPE : CU / PVC | 500 | 500 | 500 | 1500 |
| 21 | Coated earth cable size 1*70mm2 / Class5<br>TYPE : CU / PVC | 500 | 500 | 500 | 1500 |
| 22 | Coated earth cable size 1*50mm2 / Class5<br>TYPE : CU / PVC | 500 | 500 | 500 | 1500 |
| 23 | Coated earth cable size 1*35mm2 / Class5<br>TYPE : CU / PVC | 500 | 500 | 500 | 1500 |
| 24 | Coated earth cable size 1*25mm2 / Class5<br>TYPE : CU / PVC | 500 | 500 | 500 | 1500 |
| 25 | Coated earth cable size 1*10mm2 / Class5<br>TYPE : CU / PVC | 1000 | 1000 | 1000 | 3000 |
| 26 | Coated earth cable size 1*6mm2 / Class5<br>TYPE : CU / PVC | 500 | 500 | 500 | 1500 |
| 27 | Coated earth cable size 1*4mm2 / Class5<br>TYPE : CU / PVC | 200 | 200 | 200 | 600 |
| | | | | | |
| 28 | Multi-core armored cable instrumentation size 20*2*0.75 / class2<br>TYPE : CU / XLPE / ISCR / OSCR / PVC / SWA / PVC | 9000 | 12000 | 0 | 21000 |
| 29 | Multi-core without armor cable instrumentation size 20*2*0.75 / class2<br>TYPE : CU / XLPE / OSCR / PVC / PVC | 5000 | 2500 | 0 | 7500 |
| 30 | Armored cable instrumentation size 3*2*0.75 / class2<br>TYPE : CU / XLPE / ISCR / OSCR / PVC / SWA / PVC | 1000 | 500 | 0 | 1500 |
| 31 | Armored cable instrumentation size 2*2*0.75 / class2<br>TYPE : CU / XLPE / ISCR / OSCR / PVC / SWA / PVC | 1000 | 500 | 0 | 1500 |
| 32 | Armored cable instrumentation size 1*2*0.75 / class2<br>TYPE : CU / XLPE / OSCR / PVC / SWA / PVC | 8000 | 3000 | 0 | 11000 |

| Item | Description | Quantity (m) | | | Total (m) |
|---|---|---|---|---|---|
| | | LL | SAZ | Catalyst PP | |
| 33 | Cable without armor instrumentation size 1*2*0.75 / class2<br>TYPE : CU / XLPE / OSCR / PVC | 2000 | 2000 | 0 | 4000 |
| **Total (m)** | | 68200 | 47700 | 33700 | 149600 |

| PROJECT: Low Linear Density Poly Ethylene (LLDPE) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
|---|---|
| TITLE: Instrument Cable Data Sheet | |

# INSTRUMENT CABLE DATA SHEET

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page A |

| PROJECT: Low Linear Density Poly Ethylene (LLDPE) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
|---|---|
| TITLE: Instrument Cable Data Sheet | |

# INSTRUMENT CABLE DATA SHEET

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page A |

| PROJECT: Low Linear Density Poly Ethylene (LLDPE) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
|---|---|
| TITLE: Instrument Cable Data Sheet | |

| REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | X | | | | | | | | | | | | | | | | | | | |
| B | X | | | | | | | | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | | | | | | | | | |

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| | | | | | |
| 0 | 2022-01-24 | M . A | GH . K | | IFA |
| Rev. | Date | Prepared By | Checked By | Approved By | Status |

**Document Revision**

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page B |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 9000 Meter | |
| | 4 | Cable Size | | 20x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / ISCR / OSCR / PVC / SWA / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 20 | |
| | 18 | Every Pair Element Diameter | | Black-White With numbered | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | 0.036 mm | |
| | 20 | Tinned Drain Wire Size | | 0.5 mm2 | |
| | 21 | Number of Drain Wire | | 1 | |
| | 22 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 23 | Polyester Tape Thickness | | 0.036 mm | |
| | 24 | Individual Screened Element Diameter | | VTA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 1.5 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | 1.25 mm | |
| | 35 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | VTA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.8 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR M32) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | VTA | |
| | 50 | Maximum Pulling Tension | | 9618 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Cutting | | 4*2000 & 1*1000 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 20 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 2 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 5000 Meter | |
| | 4 | Cable Size | | 20x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / OSCR / PVC / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 20 | |
| | 18 | Every Pair Element Diameter | | Black-White With numbered | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | NA | |
| | 20 | Tinned Drain Wire Size | | NA | |
| | 21 | Number of Drain Wire | | NA | |
| | 22 | Aluminium Polyester Tape Thickness | | NA | |
| | 23 | Polyester Tape Thickness | | NA | |
| | 24 | Individual Screened Element Diameter | | NA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 1.5 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | NA | |
| | 35 | Polypropylene (PP) Tape Thickness | | NA | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | VTA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.5 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR M25) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | VTA | |
| | 50 | Maximum Pulling Tension | | 9618 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Cutting | | 2*2500 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 20 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 3 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 1000 Meter | |
| | 4 | Cable Size | | 3x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / ISCR / OSCR / PVC / SWA / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 3 | |
| | 18 | Every Pair Element Diameter | | Black-White With numbered | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | 0.036 mm | |
| | 20 | Tinned Drain Wire Size (Class 2) | | 0.5 mm2 | |
| | 21 | Number of Drain Wire | | 1 | |
| | 22 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 23 | Polyester Tape Thickness | | 0.036 mm | |
| | 24 | Individual Screened Element Diameter | | VTA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size (Class 2) | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 1 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 35 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | VTA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.4 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR A20) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | VTA | |
| | 50 | Maximum Pulling Tension | | 2465 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Cutting | | 1*1000 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 3 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 4 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 1000 Meter | |
| | 4 | Cable Size | | 2x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / ISCR / OSCR / PVC / SWA / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 2 | |
| | 18 | Every Pair Element Diameter | | Black-White With numbered | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | 0.036 mm | |
| | 20 | Tinned Drain Wire Size (Class 2) | | 0.5 mm2 | |
| | 21 | Number of Drain Wire | | 1 | |
| | 22 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 23 | Polyester Tape Thickness | | 0.036 mm | |
| | 24 | Individual Screened Element Diameter | | VTA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size (Class 2) | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 1 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 35 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | VTA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.4 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR O20) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | VTA | |
| | 50 | Maximum Pulling Tension | | 2267 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Catting | | 1*1000 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 2 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 5 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 8000 Meter | |
| | 4 | Cable Size | | 1x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / OSCR / PVC / SWA / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 1 | |
| | 18 | Every Pair Element Diameter | | Black-White | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | NA | |
| | 20 | Tinned Drain Wire Size | | NA | |
| | 21 | Number of Drain Wire | | NA | |
| | 22 | Aluminium Polyester Tape Thickness | | NA | |
| | 23 | Polyester Tape Thickness | | NA | |
| | 24 | Individual Screened Element Diameter | | NA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 0.9 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 35 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | VTA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.3 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR O20) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | VTA | |
| | 50 | Maximum Pulling Tension | | 1133 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Cutting | | 4*2000 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 6 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 2000 Meter | |
| | 4 | Cable Size | | 1x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / OSCR / PVC / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 1 | |
| | 18 | Every Pair Element Diameter | | Black-White | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | NA | |
| | 20 | Tinned Drain Wire Size (Class 2) | | NA | |
| | 21 | Number of Drain Wire | | NA | |
| | 22 | Aluminium Polyester Tape Thickness | | NA | |
| | 23 | Polyester Tape Thickness | | NA | |
| | 24 | Individual Screened Element Diameter | | NA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size (Class 2) | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 1.5 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | NA | |
| | 35 | Polypropylene (PP) Tape Thickness | | NA | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | NA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.3 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR O20) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | 392 mm | |
| | 50 | Maximum Pulling Tension | | 1133 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Cutting | | 1*2000 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

| PROJECT: Low Linear Density Poly Ethylene (LLPDE) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
|---|---|
| TITLE: ERTING Cable Data Sheet | |

# ERTING CABLE DATA SHEET

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page A |

PROJECT: Low Linear Density Poly Ethylene (LLPDE)

TITLE: Electrical Cable Data Sheet

CLIENT:

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

| REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | X | | | | | | | | | | | | | | | | | | | |
| B | X | | | | | | | | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | | | | | | | | | |
| 7 | X | | | | | | | | | | | | | | | | | | | |
| 8 | X | | | | | | | | | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | | | | | | | | | |

| Rev. | Date | Prepared By | Checked By | Approved By | Status |
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| 0 | 2022-01-24 | M . A | GH . K | | IFA |

**Document Revision**

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page B |

PROJECT: Low Linear Density Poly Ethylene (LLPDE)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x70 rm , mm2 |
| | 5 | Cable Type | Stranded Bare Wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu2 |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60228 |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 70 mm2 |
| | 14 | Number of Conductor wires | 1*2.125 mm |
| | 15 | Diameter of Conductor wires | 10.63 mm |
| | 16 | Nominal Thickness of Phase Insulation | 2.4 mm |
| | 17 | Insulation Material | |
| | 18 | Over Phase Insulation Diameter | |
| | 19 | Color of Phase | |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 106 mm |
| | 24 | Completed Cable Approximate Weight | 619 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.268 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | |
| | 30 | Insulation Resistance Constant Ki in Normal Operation | |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | Metal Drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 70 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLPDE)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 2 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x95 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | 450/750 V |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 95 mm2 |
| | 14 | Number of Conductor wires | 461 x 0.485 mm |
| | 15 | Diameter of Conductor wires | 13.3 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.6 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 16.5 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 16.5 mm |
| | 24 | Completed Cable Approximate Weight | 936 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.206 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0032 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 95 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLPDE)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 3 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x70 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 70 mm2 |
| | 14 | Number of Conductor wires | 576 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 11.8 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.4 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 14.6 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 14.6 mm |
| | 24 | Completed Cable Approximate Weight | 718 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.272 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0032 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 70 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLPDE)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 4 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x50 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 50 mm2 |
| | 14 | Number of Conductor wires | 402 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 9.6 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.4 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 12.4 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 12.4 mm |
| | 24 | Completed Cable Approximate Weight | 515 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.386 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0037 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 50 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLPDE)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 5 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x35 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 35 mm2 |
| | 14 | Number of Conductor wires | 288 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 8.1 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.2 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 10.5 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 10.5 mm |
| | 24 | Completed Cable Approximate Weight | 364 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.554 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0038 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 35 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLPDE)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 6 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x25 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 25 mm2 |
| | 14 | Number of Conductor wires | 197 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 6.61 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.2 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 9 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 9 mm |
| | 24 | Completed Cable Approximate Weight | 278 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.78 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0044 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 25 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLPDE)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 7 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x10 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 10 mm2 |
| | 14 | Number of Conductor wires | 81 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 4.12 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 6.17 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 6.2 mm |
| | 24 | Completed Cable Approximate Weight | 117 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 1.91 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0056MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x10 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLPDE)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 8 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x6 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 6 mm2 |
| | 14 | Number of Conductor wires | 85 x 0.282 mm |
| | 15 | Diameter of Conductor wires | 3.02 mm |
| | 16 | Nominal Thickness of Phase Insulation | 0.8 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 4.8 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 4.8 mm |
| | 24 | Completed Cable Approximate Weight | 66 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 3.3 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.006MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 6 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLPDE)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 9 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 200 Meter |
| | 4 | Cable Size | 1x4 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 4 mm2 |
| | 14 | Number of Conductor wires | 85 x 0.282 mm |
| | 15 | Diameter of Conductor wires | 3.02 mm |
| | 16 | Nominal Thickness of Phase Insulation | 0.8 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 4.8 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 4.8 mm |
| | 24 | Completed Cable Approximate Weight | 66 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 3.3 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.006MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*200 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 4 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

| PROJECT: Low Linear Density Poly Ethylene (LLDPE) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
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| TITLE: Electrical Cable Data Sheet | |

# ELECTRICAL CABLE DATA SHEET

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page A |

| PROJECT: Low Linear Density Poly Ethylene (LLDPE) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
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| TITLE: Electrical Cable Data Sheet | |

| REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | X | | | | | | | | | | | | | | | | | | | |
| B | X | | | | | | | | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | | | | | | | | | |
| 7 | X | | | | | | | | | | | | | | | | | | | |
| 8 | X | | | | | | | | | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | | | | | | | | | |
| 10 | X | | | | | | | | | | | | | | | | | | | |
| 11 | X | | | | | | | | | | | | | | | | | | | |
| 12 | X | | | | | | | | | | | | | | | | | | | |
| 13 | X | | | | | | | | | | | | | | | | | | | |
| 14 | X | | | | | | | | | | | | | | | | | | | |
| 15 | X | | | | | | | | | | | | | | | | | | | |
| 16 | X | | | | | | | | | | | | | | | | | | | |
| 17 | X | | | | | | | | | | | | | | | | | | | |

| Rev. | Date | Prepared By | Checked By | Approved By | Status |
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| 0 | 2022-01-24 | M . A | GH . K | | IFA |

**Document Revision**

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
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| | | | Type: DAS |
| | | Contract Job No.: | Page B |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 3000 Meter | |
| | 4 | Cable Size | | 1x500 rm , mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | NYY | |
| | 7 | Cable Structure | | Cu2 / PVC / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | PVC 70°c | |
| Conductor And Insulation | 12 | Number of Core | | 1 | |
| | 13 | Conductor Cruss Section | | 500 mm2 | |
| | 14 | Number of Conductor wires | | 61 | |
| | 15 | Diameter of Conductor wires | | 3.9 mm2 | |
| | 16 | Nominal Thickness of Phase Insulation | | 2.4 mm | |
| | 17 | Insulation Material | | PVC | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black | |
| Outer Sheath | 20 | Sheath Material | | PVC 70°c (ST1) | |
| | 21 | Sheath Color | | Black | |
| | 22 | Sheath Thickness | | 1.7 mm | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | | VTA | |
| | 24 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | | 0.0366 Ω/Km | |
| | 26 | Maximum Conductor Temperature-Normal Operation | | 70 °c | |
| | 27 | Maximum Conductor Temperature-Short Circuit | | 160 °c | |
| | 28 | Maximum Short-Circuit Current at 1 Second | | 50.0 kA | |
| | 29 | Power Frequency (AC) Test Voltage | | 5.0 kV | |
| | 30 | Insulation Resistance Constant Ki in Normal Operation | | 0.037 MΩ/km | |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | | 12.5 - 12.5 N/mm2 | |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | | 150 - 150 % | |
| Installation | 33 | Minimum Bending Radius | | VTA | |
| | 34 | Maximum Pulling Tension | | VTA | |
| | 35 | Packing Type | | Metal Drum | |
| | 36 | Cable Cutting | | 2*1500 meter | |
| Environmental | 37 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 38 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | | NO | |
| | 40 | Flame Retardant (IEC 60332-1) | | YES | |
| | 41 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 42 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) NYY 1 X 500 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 1000 Meter | |
| | 4 | Cable Size | 3*120+70 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 70 mm2 | |
| | 14 | Number of Conductor wires Phase | 19 | |
| | 15 | Diameter of Conductor wires Phase | 2.125 mm2 | |
| | 16 | Round Phase Conductor Diameter | 10.63 mm | |
| | 17 | Nominal Thickness of Phase Insulation | 1.1 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 35 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 2.485 mm2 | |
| | 24 | Round Neutral Conductor Diameter | 7.46 mm | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.9 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1.2 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 2 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.2 mm | |
| | 35 | Overlap percentage | 35 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.9 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.268 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 0.524 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 10.02 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 13971 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*1000 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 120 rm / 70 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 1000 Meter | |
| | 4 | Cable Size | 3*95+50 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 70 mm2 | |
| | 14 | Number of Conductor wires Phase | 19 | |
| | 15 | Diameter of Conductor wires Phase | 2.125 mm2 | |
| | 16 | Round Phase Conductor Diameter | 10.63 mm | |
| | 17 | Nominal Thickness of Phase Insulation | 1.1 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 35 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 2.485 mm2 | |
| | 24 | Round Neutral Conductor Diameter | 7.46 mm | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.9 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1.2 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 2 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.2 mm | |
| | 35 | Overlap percentage | 35 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.9 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.268 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 0.524 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 10.02 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 13971 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*1000 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 95 rm / 50 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی

شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 1000 Meter | |
| | 4 | Cable Size | 3 x 70 rm + 35 rm , mm2 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 70 mm2 | |
| | 14 | Number of Conductor wires Phase | 19 | |
| | 15 | Diameter of Conductor wires Phase | 2.125 mm2 | |
| | 16 | Round Phase Conductor Diameter | 10.63 mm | |
| | 17 | Nominal Thickness of Phase Insulation | 1.1 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 35 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 2.485 mm2 | |
| | 24 | Round Neutral Conductor Diameter | 7.46 mm | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.9 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1.2 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 2 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.2 mm | |
| | 35 | Overlap percentage | 35 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.9 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.268 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 0.524 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 10.02 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 13971 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*1000 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 70 rm / 35 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 1000 Meter | |
| | 4 | Cable Size | 3 x 50 rm + 25 rm , mm2 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 50 mm2 | |
| | 14 | Number of Conductor wires Phase | 7 | |
| | 15 | Diameter of Conductor wires Phase | 2.97 mm2 | |
| | 16 | Round Phase Conductor Diameter | 8.5 mm | |
| | 17 | Nominal Thickness of Phase Insulation | 1 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 25 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 2.095 mm2 | |
| | 24 | Round Neutral Conductor Diameter | 6.28 mm | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.9 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.2 mm | |
| | 35 | Overlap percentage | 35 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.7 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.387 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 0.727 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 7.15 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 9506 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*1000 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 50 rm / 25 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 1000 Meter | |
| | 4 | Cable Size | 3 x 35 rm + 16 rm , mm2 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 35 mm2 | |
| | 14 | Number of Conductor wires Phase | 7 | |
| | 15 | Diameter of Conductor wires Phase | 2.485 mm2 | |
| | 16 | Round Phase Conductor Diameter | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | 0.9 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 16 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 1.705 mm2 | |
| | 24 | Round Neutral Conductor Diameter | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.2 mm | |
| | 35 | Overlap percentage | 35 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.524 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 1.15 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 5.01 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 7832 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1000 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 35 rm / 16 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (LLDPE)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 1000 Meter | |
| | 4 | Cable Size | 3 x 25 rm + 10 rm , mm2 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 25 mm2 | |
| | 14 | Number of Conductor wires Phase | 7 | |
| | 15 | Diameter of Conductor wires Phase | 2.094 mm2 | |
| | 16 | Round Phase Conductor Diameter | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | 0.9 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 16 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 1.705 mm2 | |
| | 24 | Round Neutral Conductor Diameter | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | |
| | 35 | Overlap percentage | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.727 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 1.15 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 3.58 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 6708 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*1000 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 25 rm / 16 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

| | | | | | |
|---|---|---|---|---|---|
| | | PROJECT: Low Linear Density Poly Ethylene (LLDPE) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 1000 Meter | |
| | 4 | Cable Size | | 4 x 16 rm , mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 16 mm2 | |
| | 14 | Number of Conductor wires Phase | | 7 | |
| | 15 | Diameter of Conductor wires Phase | | 1.705 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 16 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 7 | |
| | 23 | Diameter of Conductor wires Neutral | | 1.705 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 1.15 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | 1.15 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 2.29 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

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|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 5358 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*1000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 16 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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|---|---|---|---|---|---|
| | | PROJECT: Low Linear Density Poly Ethylene (LLDPE) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 2000 Meter | |
| | 4 | Cable Size | | 4 x 10 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 10 mm2 | |
| | 14 | Number of Conductor wires Phase | | 81 | |
| | 15 | Diameter of Conductor wires Phase | | 0.382 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 10 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 81 | |
| | 23 | Diameter of Conductor wires Neutral | | 0.382 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 1.25 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 1.91 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | 1.91 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 1.43 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 4083 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 10 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

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| | | PROJECT: Low Linear Density Poly Ethylene (LLDPE) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 2000 Meter | |
| | 4 | Cable Size | | 3 x 10 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 10 mm2 | |
| | 14 | Number of Conductor wires Phase | | 81 | |
| | 15 | Diameter of Conductor wires Phase | | 0.382 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | NA | |
| | 21 | Conductor Cruss Section Neutral | | NA | |
| | 22 | Number of Conductor wires Neutral | | NA | |
| | 23 | Diameter of Conductor wires Neutral | | NA | |
| | 24 | Round Neutral Conductor Diameter | | NA | |
| | 25 | Nominal Thickness of Neutral Insulation | | NA | |
| | 26 | Over Neutral Insulation Diameter | | NA | |
| | 27 | Color of Neutral | | NA | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 1.25 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 1.91 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | NA | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 1.43 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 3564 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 10 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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|---|---|---|---|---|---|
| | | PROJECT: Low Linear Density Poly Ethylene (LLDPE) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | Doc. No: | | |
| | | Owner Job No: | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 2000 Meter | | |
| | 4 | Cable Size | 4 x 6 mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY | | |
| | 7 | Cable Structure | Cu5 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 5) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | | |
| | 13 | Conductor Cruss Section Phase | 6 mm2 | | |
| | 14 | Number of Conductor wires Phase | 85 | | |
| | 15 | Diameter of Conductor wires Phase | 0.282 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black - Red - Brown | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | | |
| | 21 | Conductor Cruss Section Neutral | 6 mm2 | | |
| | 22 | Number of Conductor wires Neutral | 85 | | |
| | 23 | Diameter of Conductor wires Neutral | 0.282 mm2 | | |
| | 24 | Round Neutral Conductor Diameter | VTA | | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | | |
| | 26 | Over Neutral Insulation Diameter | VTA | | |
| | 27 | Color of Neutral | Blue | | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | | |
| | 29 | Extruded Bedding Material | PVC | | |
| | 30 | Extruded Bedding Thickness | 1 mm | | |
| | 31 | Over Inner Covering Diameter | VTA | | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 33 | Steel Wire Armours Diameter | 1.25 mm | | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 35 | Overlap percentage | 25 % | | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | | |
| | 38 | Sheath Color | Black | | |
| | 39 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | | |
| | 41 | Completed Cable Approximate Weight | VTA | | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 3.3 Ω/Km | | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 3.3 Ω/Km | | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 0.86 kA | | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 3114 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2000 Metre |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 6 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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|---|---|---|---|---|---|
| | | PROJECT: Low Linear Density Poly Ethylene (LLDPE) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | Doc. No: | | |
| | | Owner Job No: | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 2500 Meter | | |
| | 4 | Cable Size | 3 x 6 mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY | | |
| | 7 | Cable Structure | Cu5 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 5) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | | |
| | 13 | Conductor Cruss Section Phase | 6 mm2 | | |
| | 14 | Number of Conductor wires Phase | 85 | | |
| | 15 | Diameter of Conductor wires Phase | 0.282 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black - Red - Brown | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | NA | | |
| | 21 | Conductor Cruss Section Neutral | NA | | |
| | 22 | Number of Conductor wires Neutral | NA | | |
| | 23 | Diameter of Conductor wires Neutral | NA | | |
| | 24 | Round Neutral Conductor Diameter | NA | | |
| | 25 | Nominal Thickness of Neutral Insulation | NA | | |
| | 26 | Over Neutral Insulation Diameter | NA | | |
| | 27 | Color of Neutral | NA | | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | | |
| | 29 | Extruded Bedding Material | PVC | | |
| | 30 | Extruded Bedding Thickness | 1 mm | | |
| | 31 | Over Inner Covering Diameter | VTA | | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 33 | Steel Wire Armours Diameter | 0.9 mm | | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 35 | Overlap percentage | 25 % | | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | | |
| | 38 | Sheath Color | Black | | |
| | 39 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | | |
| | 41 | Completed Cable Approximate Weight | VTA | | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 3.3 Ω/Km | | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | NA | | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 0.86 kA | | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2540 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2500 Metre |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 6 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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| | | PROJECT: Low Linear Density Poly Ethylene (LLDPE) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 2500 Meter | |
| | 4 | Cable Size | | 4 x 4 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 4 mm2 | |
| | 14 | Number of Conductor wires Phase | | 56 | |
| | 15 | Diameter of Conductor wires Phase | | 0.282 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 4 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 56 | |
| | 23 | Diameter of Conductor wires Neutral | | 0.282 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 4.95 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | 4.95 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.57 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2510 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2500 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 4 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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| | | PROJECT: Low Linear Density Poly Ethylene (LLDPE) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 2500 Meter | |
| | 4 | Cable Size | | 3 x 4 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 4 mm2 | |
| | 14 | Number of Conductor wires Phase | | 56 | |
| | 15 | Diameter of Conductor wires Phase | | 0.282 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | NA | |
| | 21 | Conductor Cruss Section Neutral | | NA | |
| | 22 | Number of Conductor wires Neutral | | NA | |
| | 23 | Diameter of Conductor wires Neutral | | NA | |
| | 24 | Round Neutral Conductor Diameter | | NA | |
| | 25 | Nominal Thickness of Neutral Insulation | | NA | |
| | 26 | Over Neutral Insulation Diameter | | NA | |
| | 27 | Color of Neutral | | NA | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 4.95 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | NA | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.86 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

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|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2218 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2500 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 4 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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|---|---|---|---|---|---|
| | | PROJECT: Low Linear Density Poly Ethylene (LLDPE) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 1000 Meter | |
| | 4 | Cable Size | | 4 x 2.5 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 2.5 mm2 | |
| | 14 | Number of Conductor wires Phase | | 52 | |
| | 15 | Diameter of Conductor wires Phase | | 0.232 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 2.5 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 52 | |
| | 23 | Diameter of Conductor wires Neutral | | 0.232 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 7.98 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | 7.98 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.36 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

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|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2450 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*1000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 2.5 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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| | PROJECT: Low Linear Density Poly Ethylene (LLDPE) | | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | TITLE: Electrical Cable Data Sheet | | | | |
| | Contractor Job No: | | Doc. No: | | |
| | Owner Job No: | | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 5000 Meter | |
| | 4 | Cable Size | | 5 x 2.5 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY-J | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 2.5 mm2 | |
| | 14 | Number of Conductor wires Phase | | 52 | |
| | 15 | Diameter of Conductor wires Phase | | 0.232 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 2.5 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 52 | |
| | 23 | Diameter of Conductor wires Neutral | | 0.232 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Earth Conductor And Insulation | 28 | Number of Earth | | 1 | |
| | 29 | Conductor Cruss Section Earth | | 2.5 mm2 | |
| | 30 | Number of Conductor wires Earth | | 52 | |
| | 31 | Diameter of Conductor wires Earth | | 0.232 mm2 | |
| | 32 | Round Earth Conductor Diameter | | VTA | |
| | 33 | Nominal Thickness of Earth Insulation | | 0.7 mm | |
| | 34 | Over Earth Insulation Diameter | | VTA | |
| | 35 | Color of Earth | | Yellow / Green | |
| Inner Covering | 36 | Inner Covering Type | | Extruded Bedding | |
| | 37 | Extruded Bedding Material | | PVC | |
| | 38 | Extruded Bedding Thickness | | 1 mm | |
| | 39 | Over Inner Covering Diameter | | VTA | |
| Armour | 40 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 41 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 42 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 43 | Overlap percentage | | 25 % | |
| | 44 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 45 | Sheath Material | | PVC 90°c (ST2) | |
| | 46 | Sheath Color | | Black | |
| | 47 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 48 | Completed Cable Approximate Diameter | | VTA | |
| | 49 | Completed Cable Approximate Weight | | VTA | |
| | 50 | Maximum Resistance of Phase Conductor at 20 °C | | 7.98 Ω/Km | |
| | 51 | Maximum Resistance of Neutral Conductor at 20 °C | | 7.98 Ω/Km | |
| | 52 | Maximum Resistance of Earth Conductor at 20 °C | | 7.98 Ω/Km | |

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|---|---|---|---|
| Electrical | 53 | Maximum Conductor Temperature-Normal Operation | 90 °c |
| | 54 | Maximum Conductor Temperature-Short Circuit | 250 °c |
| | 55 | Maximum Short-Circuit Current at 1 Second | 0.36 kA |
| | 56 | Power Frequency (AC) Test Voltage | 3.5 kV |
| | 57 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km |
| Mechanical | 58 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 59 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 60 | Minimum Bending Radius | VTA |
| | 61 | Maximum Pulling Tension | 2450 N |
| | 62 | Packing Type | Metal Drum |
| | 63 | Cable Cutting | 2*2500 Meter |
| Environmental | 64 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 65 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 66 | Fire Resistant (IEC 60331-21) | NO |
| | 67 | Flame Retardant (IEC 60332-1) | YES |
| | 68 | UV Resistant (UL 1581, Section 1200) | YES |
| | 69 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY-J 5 X 2.5 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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| | | PROJECT: Low Linear Density Poly Ethylene (LLDPE) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 8000 Meter | |
| | 4 | Cable Size | | 10 x 2.5 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 10 | |
| | 13 | Conductor Cruss Section Phase | | 2.5 mm2 | |
| | 14 | Number of Conductor wires Phase | | 52 | |
| | 15 | Diameter of Conductor wires Phase | | 0.232 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black with White Number | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | NA | |
| | 21 | Conductor Cruss Section Neutral | | NA | |
| | 22 | Number of Conductor wires Neutral | | NA | |
| | 23 | Diameter of Conductor wires Neutral | | NA | |
| | 24 | Round Neutral Conductor Diameter | | NA | |
| | 25 | Nominal Thickness of Neutral Insulation | | NA | |
| | 26 | Over Neutral Insulation Diameter | | NA | |
| | 27 | Color of Neutral | | NA | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 1.25 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 7.98 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | NA | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.36 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

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|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 4238 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 4*2000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 10 X 2.5 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

| PROJECT: Low Linear Density Poly Ethylene (CATALIST PP) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
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| TITLE: ERTING Cable Data Sheet | |

# ERTING CABLE DATA SHEET

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page A |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: Electrical Cable Data Sheet

CLIENT:

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

| REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | X | | | | | | | | | | | | | | | | | | | |
| B | X | | | | | | | | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | | | | | | | | | |
| 7 | X | | | | | | | | | | | | | | | | | | | |
| 8 | X | | | | | | | | | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | | | | | | | | | |

| Rev. | Date | Prepared By | Checked By | Approved By | Status |
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**Document Revision**

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
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| | | | Type: DAS |
| | | Contract Job No.: | Page B |

PROJECT: Low Linear Density Poly Ethylene (CALALIST PP)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

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|---|---|---|---|
| | | Contractor Job No: | Doc. No: |
| | | Owner Job No: | Sheet No 1 of 9 |
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x70 rm , mm2 |
| | 5 | Cable Type | Stranded Bare Wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu2 |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60228 |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 70 mm2 |
| | 14 | Number of Conductor wires | 1*2.125 mm |
| | 15 | Diameter of Conductor wires | 10.63 mm |
| | 16 | Nominal Thickness of Phase Insulation | 2.4 mm |
| | 17 | Insulation Material | |
| | 18 | Over Phase Insulation Diameter | |
| | 19 | Color of Phase | |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 106 mm |
| | 24 | Completed Cable Approximate Weight | 619 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.268 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | |
| | 30 | Insulation Resistance Constant Ki in Normal Operation | |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | Metal Drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 70 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 2 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x95 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | 450/750 V |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 95 mm2 |
| | 14 | Number of Conductor wires | 461 x 0.485 mm |
| | 15 | Diameter of Conductor wires | 13.3 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.6 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 16.5 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 16.5 mm |
| | 24 | Completed Cable Approximate Weight | 936 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.206 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0032 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |

| | |
|---|---|
| Jet Printed Marking | (Cable Designation Code) 1 x 95 mm² 450/750 ISIRI (670)02 IRAN n Meter n |
| Note | Production Tolerance. (± 5%) |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

| | | | |
|---|---|---|---|
| | | Contractor Job No: | Doc. No: |
| | | Owner Job No: | Sheet No 3 of 9 |
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x70 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 70 mm2 |
| | 14 | Number of Conductor wires | 576 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 11.8 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.4 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 14.6 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 14.6 mm |
| | 24 | Completed Cable Approximate Weight | 718 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.272 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0032 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 70 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 4 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x50 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 50 mm2 |
| | 14 | Number of Conductor wires | 402 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 9.6 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.4 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 12.4 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 12.4 mm |
| | 24 | Completed Cable Approximate Weight | 515 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.386 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0037 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 50 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 5 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x35 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 35 mm2 |
| | 14 | Number of Conductor wires | 288 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 8.1 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.2 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 10.5 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 10.5 mm |
| | 24 | Completed Cable Approximate Weight | 364 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.554 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0038 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 35 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 6 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x25 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 25 mm2 |
| | 14 | Number of Conductor wires | 197 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 6.61 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.2 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 9 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 9 mm |
| | 24 | Completed Cable Approximate Weight | 278 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.78 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0044 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 25 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 7 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x10 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 10 mm2 |
| | 14 | Number of Conductor wires | 81 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 4.12 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 6.17 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 6.2 mm |
| | 24 | Completed Cable Approximate Weight | 117 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 1.91 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0056MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x10 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 8 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x6 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 6 mm2 |
| | 14 | Number of Conductor wires | 85 x 0.282 mm |
| | 15 | Diameter of Conductor wires | 3.02 mm |
| | 16 | Nominal Thickness of Phase Insulation | 0.8 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 4.8 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 4.8 mm |
| | 24 | Completed Cable Approximate Weight | 66 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 3.3 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.006MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 6 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

| | | | | |
|---|---|---|---|---|
| | | Contractor Job No: | Doc. No: | |
| | | Owner Job No: | Sheet No 9 of 9 | |
| General Information | 1 | Cable Code / Manufacturer | | |
| | 2 | Cable Service | ERTING Power | |
| | 3 | Quantity | 200 Meter | |
| | 4 | Cable Size | 1x4 mm2 | |
| | 5 | Cable Type | Flame Retardant flexible wire | |
| | 6 | Cable Designation Code | | |
| | 7 | Cable Structure | Cu5/pvc | |
| | 8 | Rated Voltage | | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) | |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | |
| Conductor And Insulation | 12 | Number of Core | 1 | |
| | 13 | Conductor Cruss Section | 4 mm2 | |
| | 14 | Number of Conductor wires | 85 x 0.282 mm | |
| | 15 | Diameter of Conductor wires | 3.02 mm | |
| | 16 | Nominal Thickness of Phase Insulation | 0.8 mm | |
| | 17 | Insulation Material | PVC 70 °c | |
| | 18 | Over Phase Insulation Diameter | 4.8 mm | |
| | 19 | Color of Phase | Y/G | |
| Outer Sheath | 20 | Sheath Material | | |
| | 21 | Sheath Color | | |
| | 22 | Sheath Thickness | | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 4.8 mm | |
| | 24 | Completed Cable Approximate Weight | 66 kg/km | |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 3.3 Ω/Km | |
| | 26 | Maximum Conductor Temperature-Normal Operation | | |
| | 27 | Maximum Conductor Temperature-Short Circuit | | |
| | 28 | Maximum Short-Circuit Current at 1 Second | | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V | |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.006MΩ.Km | |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 | |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % | |
| Installation | 33 | Minimum Bending Radius | | |
| | 34 | Maximum Pulling Tension | | |
| | 35 | Packing Type | wooden drum | |
| | 36 | Cable Cutting | 1*200 meter | |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c | |
| | 38 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | | |
| | 40 | Flame Retardant (IEC 60332-1) | | |
| | 41 | UV Resistant (UL 1581, Section 1200) | | |
| | 42 | Jacket properties | | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 4 mm² 450/750 ISIRI (670)02 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

| PROJECT: Low Linear Density Poly Ethylene (CATALIST PP) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
|---|---|
| TITLE: Electrical Cable Data Sheet | |

# ELECTRICAL CABLE DATA SHEET

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page A |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: Electrical Cable Data Sheet

CLIENT:

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

| REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | X | | | | | | | | | | | | | | | | | | | |
| B | X | | | | | | | | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | | | | | | | | | |
| 7 | X | | | | | | | | | | | | | | | | | | | |
| 8 | X | | | | | | | | | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | | | | | | | | | |
| 10 | X | | | | | | | | | | | | | | | | | | | |
| 11 | X | | | | | | | | | | | | | | | | | | | |
| 12 | X | | | | | | | | | | | | | | | | | | | |
| 13 | X | | | | | | | | | | | | | | | | | | | |
| 14 | X | | | | | | | | | | | | | | | | | | | |
| 15 | X | | | | | | | | | | | | | | | | | | | |
| 16 | X | | | | | | | | | | | | | | | | | | | |
| 17 | X | | | | | | | | | | | | | | | | | | | |

| Rev. | Date | Prepared By | Checked By | Approved By | Status |
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| 0 | 2022-01-24 | M . A | GH . K | | IFA |

**Document Revision**

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page B |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 500 Meter | |
| | 4 | Cable Size | | 1x300 rm , mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | NYY | |
| | 7 | Cable Structure | | Cu2 / PVC / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | PVC 70°c | |
| Conductor And Insulation | 12 | Number of Core | | 1 | |
| | 13 | Conductor Cruss Section | | 300 mm2 | |
| | 14 | Number of Conductor wires | | 61 | |
| | 15 | Diameter of Conductor wires | | 3.9 mm2 | |
| | 16 | Nominal Thickness of Phase Insulation | | 2.4 mm | |
| | 17 | Insulation Material | | PVC | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black | |
| Outer Sheath | 20 | Sheath Material | | PVC 70°c (ST1) | |
| | 21 | Sheath Color | | Black | |
| | 22 | Sheath Thickness | | 1.7 mm | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | | VTA | |
| | 24 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | | 0.0366 Ω/Km | |
| | 26 | Maximum Conductor Temperature-Normal Operation | | 70 °c | |
| | 27 | Maximum Conductor Temperature-Short Circuit | | 160 °c | |
| | 28 | Maximum Short-Circuit Current at 1 Second | | 50.0 kA | |
| | 29 | Power Frequency (AC) Test Voltage | | 5.0 kV | |
| | 30 | Insulation Resistance Constant Ki in Normal Operation | | 0.037 MΩ/km | |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | | 12.5 - 12.5 N/mm2 | |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | | 150 - 150 % | |
| Installation | 33 | Minimum Bending Radius | | VTA | |
| | 34 | Maximum Pulling Tension | | VTA | |
| | 35 | Packing Type | | Metal Drum | |
| | 36 | Cable Cutting | | 1*500 meter | |
| Environmental | 37 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 38 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | | NO | |
| | 40 | Flame Retardant (IEC 60332-1) | | YES | |
| | 41 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 42 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) NYY 1 X 300 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 1500 Meter | |
| | 4 | Cable Size | 3 x 50 rm + 35 rm , mm2 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 50 mm2 | |
| | 14 | Number of Conductor wires Phase | 7 | |
| | 15 | Diameter of Conductor wires Phase | 2.97 mm2 | |
| | 16 | Round Phase Conductor Diameter | 8.5 mm | |
| | 17 | Nominal Thickness of Phase Insulation | 1 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 25 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 2.095 mm2 | |
| | 24 | Round Neutral Conductor Diameter | 6.28 mm | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.9 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.2 mm | |
| | 35 | Overlap percentage | 35 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.7 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.387 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 0.727 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 7.15 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 9506 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*1500 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 50 rm / 25 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 1500 Meter | |
| | 4 | Cable Size | 3 x 35 rm + 16 rm , mm2 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 35 mm2 | |
| | 14 | Number of Conductor wires Phase | 7 | |
| | 15 | Diameter of Conductor wires Phase | 2.485 mm2 | |
| | 16 | Round Phase Conductor Diameter | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | 0.9 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 16 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 1.705 mm2 | |
| | 24 | Round Neutral Conductor Diameter | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.2 mm | |
| | 35 | Overlap percentage | 35 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.524 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 1.15 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 5.01 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 7832 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*1500 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 35 rm / 16 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 500 Meter | |
| | 4 | Cable Size | 3 x 25 rm + 16 rm , mm2 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 25 mm2 | |
| | 14 | Number of Conductor wires Phase | 7 | |
| | 15 | Diameter of Conductor wires Phase | 2.094 mm2 | |
| | 16 | Round Phase Conductor Diameter | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | 0.9 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 16 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 1.705 mm2 | |
| | 24 | Round Neutral Conductor Diameter | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | |
| | 35 | Overlap percentage | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.727 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 1.15 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 3.58 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 6708 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*500 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 25 rm / 16 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

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| | | PROJECT: Low Linear Density Poly Ethylene (CATALIST PP) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | Doc. No: | | |
| | | Owner Job No: | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 1500 Meter | | |
| | 4 | Cable Size | 4 x 16 rm , mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY | | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | | |
| | 13 | Conductor Cruss Section Phase | 16 mm2 | | |
| | 14 | Number of Conductor wires Phase | 7 | | |
| | 15 | Diameter of Conductor wires Phase | 1.705 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black - Red - Brown | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | | |
| | 21 | Conductor Cruss Section Neutral | 16 mm2 | | |
| | 22 | Number of Conductor wires Neutral | 7 | | |
| | 23 | Diameter of Conductor wires Neutral | 1.705 mm2 | | |
| | 24 | Round Neutral Conductor Diameter | VTA | | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | | |
| | 26 | Over Neutral Insulation Diameter | VTA | | |
| | 27 | Color of Neutral | Blue | | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | | |
| | 29 | Extruded Bedding Material | PVC | | |
| | 30 | Extruded Bedding Thickness | 1 mm | | |
| | 31 | Over Inner Covering Diameter | VTA | | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 33 | Steel Wire Armours Diameter | 1.6 mm | | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 35 | Overlap percentage | 25 % | | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | | |
| | 38 | Sheath Color | Black | | |
| | 39 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | | |
| | 41 | Completed Cable Approximate Weight | VTA | | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 1.15 Ω/Km | | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 1.15 Ω/Km | | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 2.29 kA | | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 5358 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*1500 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 16 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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| | | PROJECT: Low Linear Density Poly Ethylene (CATALIST PP) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | Doc. No: | | |
| | | Owner Job No: | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 3000 Meter | | |
| | 4 | Cable Size | 4 x 10 mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY | | |
| | 7 | Cable Structure | Cu5 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 5) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | | |
| | 13 | Conductor Cruss Section Phase | 10 mm2 | | |
| | 14 | Number of Conductor wires Phase | 81 | | |
| | 15 | Diameter of Conductor wires Phase | 0.382 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black - Red - Brown | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | | |
| | 21 | Conductor Cruss Section Neutral | 10 mm2 | | |
| | 22 | Number of Conductor wires Neutral | 81 | | |
| | 23 | Diameter of Conductor wires Neutral | 0.382 mm2 | | |
| | 24 | Round Neutral Conductor Diameter | VTA | | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | | |
| | 26 | Over Neutral Insulation Diameter | VTA | | |
| | 27 | Color of Neutral | Blue | | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | | |
| | 29 | Extruded Bedding Material | PVC | | |
| | 30 | Extruded Bedding Thickness | 1 mm | | |
| | 31 | Over Inner Covering Diameter | VTA | | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 33 | Steel Wire Armours Diameter | 1.25 mm | | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 35 | Overlap percentage | 25 % | | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | | |
| | 38 | Sheath Color | Black | | |
| | 39 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | | |
| | 41 | Completed Cable Approximate Weight | VTA | | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 1.91 Ω/Km | | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 1.91 Ω/Km | | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 1.43 kA | | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | | |

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|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 4083 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2000 & 1*1000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 10 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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|---|---|---|---|---|---|
| | | PROJECT: Low Linear Density Poly Ethylene (CATALIST PP) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | Doc. No: | | |
| | | Owner Job No: | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 3000 Meter | | |
| | 4 | Cable Size | 3 x 10 mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY | | |
| | 7 | Cable Structure | Cu5 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 5) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | | |
| | 13 | Conductor Cruss Section Phase | 10 mm2 | | |
| | 14 | Number of Conductor wires Phase | 81 | | |
| | 15 | Diameter of Conductor wires Phase | 0.382 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black - Red - Brown | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | NA | | |
| | 21 | Conductor Cruss Section Neutral | NA | | |
| | 22 | Number of Conductor wires Neutral | NA | | |
| | 23 | Diameter of Conductor wires Neutral | NA | | |
| | 24 | Round Neutral Conductor Diameter | NA | | |
| | 25 | Nominal Thickness of Neutral Insulation | NA | | |
| | 26 | Over Neutral Insulation Diameter | NA | | |
| | 27 | Color of Neutral | NA | | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | | |
| | 29 | Extruded Bedding Material | PVC | | |
| | 30 | Extruded Bedding Thickness | 1 mm | | |
| | 31 | Over Inner Covering Diameter | VTA | | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 33 | Steel Wire Armours Diameter | 1.25 mm | | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 35 | Overlap percentage | 25 % | | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | | |
| | 38 | Sheath Color | Black | | |
| | 39 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | | |
| | 41 | Completed Cable Approximate Weight | VTA | | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 1.91 Ω/Km | | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | NA | | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 1.43 kA | | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 3564 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2000 & 1*1000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 10 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| | | PROJECT: Low Linear Density Poly Ethylene (CATALIST PP) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | Doc. No: | | |
| | | Owner Job No: | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 2000 Meter | | |
| | 4 | Cable Size | 4 x 6 mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY | | |
| | 7 | Cable Structure | Cu5 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 5) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | | |
| | 13 | Conductor Cruss Section Phase | 6 mm2 | | |
| | 14 | Number of Conductor wires Phase | 85 | | |
| | 15 | Diameter of Conductor wires Phase | 0.282 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black - Red - Brown | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | | |
| | 21 | Conductor Cruss Section Neutral | 6 mm2 | | |
| | 22 | Number of Conductor wires Neutral | 85 | | |
| | 23 | Diameter of Conductor wires Neutral | 0.282 mm2 | | |
| | 24 | Round Neutral Conductor Diameter | VTA | | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | | |
| | 26 | Over Neutral Insulation Diameter | VTA | | |
| | 27 | Color of Neutral | Blue | | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | | |
| | 29 | Extruded Bedding Material | PVC | | |
| | 30 | Extruded Bedding Thickness | 1 mm | | |
| | 31 | Over Inner Covering Diameter | VTA | | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 33 | Steel Wire Armours Diameter | 1.25 mm | | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 35 | Overlap percentage | 25 % | | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | | |
| | 38 | Sheath Color | Black | | |
| | 39 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | | |
| | 41 | Completed Cable Approximate Weight | VTA | | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 3.3 Ω/Km | | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 3.3 Ω/Km | | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 0.86 kA | | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 3114 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 6 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
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| | | PROJECT: Low Linear Density Poly Ethylene (CATALIST PP) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | Doc. No: | | |
| | | Owner Job No: | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 1500 Meter | | |
| | 4 | Cable Size | 3 x 6 mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY | | |
| | 7 | Cable Structure | Cu5 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 5) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | | |
| | 13 | Conductor Cruss Section Phase | 6 mm2 | | |
| | 14 | Number of Conductor wires Phase | 85 | | |
| | 15 | Diameter of Conductor wires Phase | 0.282 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black - Red - Brown | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | NA | | |
| | 21 | Conductor Cruss Section Neutral | NA | | |
| | 22 | Number of Conductor wires Neutral | NA | | |
| | 23 | Diameter of Conductor wires Neutral | NA | | |
| | 24 | Round Neutral Conductor Diameter | NA | | |
| | 25 | Nominal Thickness of Neutral Insulation | NA | | |
| | 26 | Over Neutral Insulation Diameter | NA | | |
| | 27 | Color of Neutral | NA | | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | | |
| | 29 | Extruded Bedding Material | PVC | | |
| | 30 | Extruded Bedding Thickness | 1 mm | | |
| | 31 | Over Inner Covering Diameter | VTA | | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 33 | Steel Wire Armours Diameter | 0.9 mm | | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 35 | Overlap percentage | 25 % | | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | | |
| | 38 | Sheath Color | Black | | |
| | 39 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | | |
| | 41 | Completed Cable Approximate Weight | VTA | | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 3.3 Ω/Km | | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | NA | | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 0.86 kA | | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2540 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*1500 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 6 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| | | PROJECT: Low Linear Density Poly Ethylene (CATALIST PP) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | Doc. No: | | |
| | | Owner Job No: | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 2000 Meter | | |
| | 4 | Cable Size | 4 x 4 mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY | | |
| | 7 | Cable Structure | Cu5 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 5) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | | |
| | 13 | Conductor Cruss Section Phase | 4 mm2 | | |
| | 14 | Number of Conductor wires Phase | 56 | | |
| | 15 | Diameter of Conductor wires Phase | 0.282 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black - Red - Brown | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | | |
| | 21 | Conductor Cruss Section Neutral | 4 mm2 | | |
| | 22 | Number of Conductor wires Neutral | 56 | | |
| | 23 | Diameter of Conductor wires Neutral | 0.282 mm2 | | |
| | 24 | Round Neutral Conductor Diameter | VTA | | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | | |
| | 26 | Over Neutral Insulation Diameter | VTA | | |
| | 27 | Color of Neutral | Blue | | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | | |
| | 29 | Extruded Bedding Material | PVC | | |
| | 30 | Extruded Bedding Thickness | 1 mm | | |
| | 31 | Over Inner Covering Diameter | VTA | | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 33 | Steel Wire Armours Diameter | 0.9 mm | | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 35 | Overlap percentage | 25 % | | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | | |
| | 38 | Sheath Color | Black | | |
| | 39 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | | |
| | 41 | Completed Cable Approximate Weight | VTA | | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 4.95 Ω/Km | | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 4.95 Ω/Km | | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 0.57 kA | | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2510 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 4 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی

شرکت پژوهش و فناوری پتروشیمی

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|---|---|---|---|---|---|
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 1500 Meter | |
| | 4 | Cable Size | | 3 x 4 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 4 mm2 | |
| | 14 | Number of Conductor wires Phase | | 56 | |
| | 15 | Diameter of Conductor wires Phase | | 0.282 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | NA | |
| | 21 | Conductor Cruss Section Neutral | | NA | |
| | 22 | Number of Conductor wires Neutral | | NA | |
| | 23 | Diameter of Conductor wires Neutral | | NA | |
| | 24 | Round Neutral Conductor Diameter | | NA | |
| | 25 | Nominal Thickness of Neutral Insulation | | NA | |
| | 26 | Over Neutral Insulation Diameter | | NA | |
| | 27 | Color of Neutral | | NA | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 4.95 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | NA | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.86 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2218 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*1500 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 4 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

PROJECT: Low Linear Density Poly Ethylene (CATALIST PP)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی

شرکت پژوهش و فناوری پتروشیمی

| | | | | | |
|---|---|---|---|---|---|
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 500 Meter | |
| | 4 | Cable Size | | 4 x 2.5 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 2.5 mm2 | |
| | 14 | Number of Conductor wires Phase | | 52 | |
| | 15 | Diameter of Conductor wires Phase | | 0.232 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 2.5 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 52 | |
| | 23 | Diameter of Conductor wires Neutral | | 0.232 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 7.98 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | 7.98 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.36 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

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|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2450 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*500 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 2.5 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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| | PROJECT: Low Linear Density Poly Ethylene (CATALIST PP) | | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | TITLE: Electrical Cable Data Sheet | | | | |
| | Contractor Job No: | | Doc. No: | | |
| | Owner Job No: | | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 4000 Meter | | |
| | 4 | Cable Size | 5 x 2.5 mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY-J | | |
| | 7 | Cable Structure | Cu5 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 5) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | | |
| | 13 | Conductor Cruss Section Phase | 2.5 mm2 | | |
| | 14 | Number of Conductor wires Phase | 52 | | |
| | 15 | Diameter of Conductor wires Phase | 0.232 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black - Red - Brown | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | | |
| | 21 | Conductor Cruss Section Neutral | 2.5 mm2 | | |
| | 22 | Number of Conductor wires Neutral | 52 | | |
| | 23 | Diameter of Conductor wires Neutral | 0.232 mm2 | | |
| | 24 | Round Neutral Conductor Diameter | VTA | | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | | |
| | 26 | Over Neutral Insulation Diameter | VTA | | |
| | 27 | Color of Neutral | Blue | | |
| Earth Conductor And Insulation | 28 | Number of Earth | 1 | | |
| | 29 | Conductor Cruss Section Earth | 2.5 mm2 | | |
| | 30 | Number of Conductor wires Earth | 52 | | |
| | 31 | Diameter of Conductor wires Earth | 0.232 mm2 | | |
| | 32 | Round Earth Conductor Diameter | VTA | | |
| | 33 | Nominal Thickness of Earth Insulation | 0.7 mm | | |
| | 34 | Over Earth Insulation Diameter | VTA | | |
| | 35 | Color of Earth | Yellow / Green | | |
| Inner Covering | 36 | Inner Covering Type | Extruded Bedding | | |
| | 37 | Extruded Bedding Material | PVC | | |
| | 38 | Extruded Bedding Thickness | 1 mm | | |
| | 39 | Over Inner Covering Diameter | VTA | | |
| Armour | 40 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 41 | Steel Wire Armours Diameter | 0.9 mm | | |
| | 42 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 43 | Overlap percentage | 25 % | | |
| | 44 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 45 | Sheath Material | PVC 90°c (ST2) | | |
| | 46 | Sheath Color | Black | | |
| | 47 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 48 | Completed Cable Approximate Diameter | VTA | | |
| | 49 | Completed Cable Approximate Weight | VTA | | |
| | 50 | Maximum Resistance of Phase Conductor at 20 °C | 7.98 Ω/Km | | |
| | 51 | Maximum Resistance of Neutral Conductor at 20 °C | 7.98 Ω/Km | | |
| | 52 | Maximum Resistance of Earth Conductor at 20 °C | 7.98 Ω/Km | | |

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|---|---|---|---|
| Electrical | 53 | Maximum Conductor Temperature-Normal Operation | 90 °c |
| | 54 | Maximum Conductor Temperature-Short Circuit | 250 °c |
| | 55 | Maximum Short-Circuit Current at 1 Second | 0.36 kA |
| | 56 | Power Frequency (AC) Test Voltage | 3.5 kV |
| | 57 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km |
| Mechanical | 58 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 59 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 60 | Minimum Bending Radius | VTA |
| | 61 | Maximum Pulling Tension | 2450 N |
| | 62 | Packing Type | Metal Drum |
| | 63 | Cable Cutting | 2*2000 Meter |
| Environmental | 64 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 65 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 66 | Fire Resistant (IEC 60331-21) | NO |
| | 67 | Flame Retardant (IEC 60332-1) | YES |
| | 68 | UV Resistant (UL 1581, Section 1200) | YES |
| | 69 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY-J 5 X 2.5 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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| | | PROJECT: Low Linear Density Poly Ethylene (CATALIST PP) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | Doc. No: | | |
| | | Owner Job No: | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 6000 Meter | | |
| | 4 | Cable Size | 10 x 2.5 mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY | | |
| | 7 | Cable Structure | Cu5 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 5) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 10 | | |
| | 13 | Conductor Cruss Section Phase | 2.5 mm2 | | |
| | 14 | Number of Conductor wires Phase | 52 | | |
| | 15 | Diameter of Conductor wires Phase | 0.232 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black with White Number | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | NA | | |
| | 21 | Conductor Cruss Section Neutral | NA | | |
| | 22 | Number of Conductor wires Neutral | NA | | |
| | 23 | Diameter of Conductor wires Neutral | NA | | |
| | 24 | Round Neutral Conductor Diameter | NA | | |
| | 25 | Nominal Thickness of Neutral Insulation | NA | | |
| | 26 | Over Neutral Insulation Diameter | NA | | |
| | 27 | Color of Neutral | NA | | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | | |
| | 29 | Extruded Bedding Material | PVC | | |
| | 30 | Extruded Bedding Thickness | 1 mm | | |
| | 31 | Over Inner Covering Diameter | VTA | | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 33 | Steel Wire Armours Diameter | 1.25 mm | | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 35 | Overlap percentage | 25 % | | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | | |
| | 38 | Sheath Color | Black | | |
| | 39 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | | |
| | 41 | Completed Cable Approximate Weight | VTA | | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 7.98 Ω/Km | | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | NA | | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 0.36 kA | | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 4238 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 3*2000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 10 X 2.5 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

| PROJECT: Low Linear Density Poly Ethylene (SAZ) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
|---|---|
| TITLE: Instrument Cable Data Sheet | |

# INSTRUMENT CABLE DATA SHEET

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page A |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

CLIENT:

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

TITLE: Instrument Cable Data Sheet

| REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | X | | | | | | | | | | | | | | | | | | | |
| B | X | | | | | | | | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | | | | | | | | | |

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| Rev. | Date | Prepared By | Checked By | Approved By | Status |

**Document Revision**

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
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| | | | Type: DAS |
| | | Contract Job No.: | Page B |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic signal | |
| | 3 | Quantity | 12000 Meter | |
| | 4 | Cable Size | 20x2x0.75 mm2 | |
| | 5 | Cable Type | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | Cu2 / XLPE / ISCR / OSCR / PVC / SWA / PVC | |
| | 7 | Rated Voltage | 300/500V | |
| | 8 | Applied Standard | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | 0.75 mm2 | |
| | 10 | Conductor Type | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | 7 | |
| | 12 | Diameter of Conductor wires | 0.38 mm2 | |
| | 13 | Conductor diameter | 1.14 mm | |
| Insulation | 14 | Insulation Material | XLPE | |
| | 15 | Insulation Thickness | 0.52 mm | |
| | 16 | Over insulation diameter | 2.18 mm | |
| | 17 | Number of Pairs | 20 | |
| | 18 | Every Pair Element Diameter | Black-White With numbered | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | 0.036 mm | |
| | 20 | Tinned Drain Wire Size | 0.5 mm2 | |
| | 21 | Number of Drain Wire | 1 | |
| | 22 | Aluminium Polyester Tape Thickness | 0.036 mm | |
| | 23 | Polyester Tape Thickness | 0.036 mm | |
| | 24 | Individual Screened Element Diameter | VTA | |
| Overall Screen | 25 | Polyester Tape Thickness | 0.036 mm | |
| | 26 | Tinned Drain Wire Size | 0.5 mm2 | |
| | 27 | Number of Drain Wire | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | 0.036 mm | |
| | 29 | Polyester Tape Thickness | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | 1.5 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 34 | Steel Wire Armours Diameter | 1.25 mm | |
| | 35 | Polypropylene (PP) Tape Thickness | 0.1 mm | |
| | 36 | Overlap percentage | 25 % | |
| | 37 | Over Armour+Tape Diameter | VTA | |
| Outer Sheath | 38 | Sheath Material | PVC 90°c (ST2) | |
| | 39 | Sheath Color | Blue RAL 5015 | |
| | 40 | Sheath Thickness | 1.8 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | VTA | |
| | 42 | Cable overall diameter nominal/max mm | VTA (SUITABLE FOR M32) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | 90 °c | |
| Installation | 49 | Minimum Bending Radius | VTA | |
| | 50 | Maximum Pulling Tension | 9618 N | |
| | 51 | Packing Type | Metal Drum | |
| | 52 | Cable Cutting | 6*2000 meter | |
| Environmental | 53 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 57 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 20 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 2 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 2500 Meter | |
| | 4 | Cable Size | | 20x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / OSCR / PVC / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 20 | |
| | 18 | Every Pair Element Diameter | | Black-White With numbered | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | NA | |
| | 20 | Tinned Drain Wire Size | | NA | |
| | 21 | Number of Drain Wire | | NA | |
| | 22 | Aluminium Polyester Tape Thickness | | NA | |
| | 23 | Polyester Tape Thickness | | NA | |
| | 24 | Individual Screened Element Diameter | | NA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 1.5 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | NA | |
| | 35 | Polypropylene (PP) Tape Thickness | | NA | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | VTA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.5 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR M25) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | VTA | |
| | 50 | Maximum Pulling Tension | | 9618 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Cutting | | 1*2500 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 20 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 3 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 500 Meter | |
| | 4 | Cable Size | | 3x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / ISCR / OSCR / PVC / SWA / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 3 | |
| | 18 | Every Pair Element Diameter | | Black-White With numbered | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | 0.036 mm | |
| | 20 | Tinned Drain Wire Size (Class 2) | | 0.5 mm2 | |
| | 21 | Number of Drain Wire | | 1 | |
| | 22 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 23 | Polyester Tape Thickness | | 0.036 mm | |
| | 24 | Individual Screened Element Diameter | | VTA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size (Class 2) | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 1 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 35 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | VTA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.4 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR A20) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | VTA | |
| | 50 | Maximum Pulling Tension | | 2465 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Cutting | | 1*500 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 3 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 4 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 500 Meter | |
| | 4 | Cable Size | | 2x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / ISCR / OSCR / PVC / SWA / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 2 | |
| | 18 | Every Pair Element Diameter | | Black-White With numbered | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | 0.036 mm | |
| | 20 | Tinned Drain Wire Size (Class 2) | | 0.5 mm2 | |
| | 21 | Number of Drain Wire | | 1 | |
| | 22 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 23 | Polyester Tape Thickness | | 0.036 mm | |
| | 24 | Individual Screened Element Diameter | | VTA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size (Class 2) | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 1 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 35 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | VTA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.4 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR O20) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | VTA | |
| | 50 | Maximum Pulling Tension | | 2267 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Catting | | 1*500 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 2 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 5 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 3000 Meter | |
| | 4 | Cable Size | | 1x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / OSCR / PVC / SWA / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 1 | |
| | 18 | Every Pair Element Diameter | | Black-White | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | NA | |
| | 20 | Tinned Drain Wire Size | | NA | |
| | 21 | Number of Drain Wire | | NA | |
| | 22 | Aluminium Polyester Tape Thickness | | NA | |
| | 23 | Polyester Tape Thickness | | NA | |
| | 24 | Individual Screened Element Diameter | | NA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 0.9 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 35 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | VTA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.3 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR O20) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | VTA | |
| | 50 | Maximum Pulling Tension | | 1133 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Cutting | | 1*3000 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: Instrument Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 6 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic signal | |
| | 3 | Quantity | | 2000 Meter | |
| | 4 | Cable Size | | 1x2x0.75 mm2 | |
| | 5 | Cable Type | | Flame retardant instrumentation cable | |
| | 6 | Cable Structure | | Cu2 / XLPE / OSCR / PVC / PVC | |
| | 7 | Rated Voltage | | 300/500V | |
| | 8 | Applied Standard | | BS EN 50288-7 & IEC 60332-1 | |
| Conductor | 9 | Conductor Cruss Section | | 0.75 mm2 | |
| | 10 | Conductor Type | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Number of Conductor wires | | 7 | |
| | 12 | Diameter of Conductor wires | | 0.38 mm2 | |
| | 13 | Conductor diameter | | 1.14 mm | |
| Insulation | 14 | Insulation Material | | XLPE | |
| | 15 | Insulation Thickness | | 0.52 mm | |
| | 16 | Over insulation diameter | | 2.18 mm | |
| | 17 | Number of Pairs | | 1 | |
| | 18 | Every Pair Element Diameter | | Black-White | |
| Individual Screen | 19 | Polyester Tape Thickness (2 Layers: ID+SC) | | NA | |
| | 20 | Tinned Drain Wire Size (Class 2) | | NA | |
| | 21 | Number of Drain Wire | | NA | |
| | 22 | Aluminium Polyester Tape Thickness | | NA | |
| | 23 | Polyester Tape Thickness | | NA | |
| | 24 | Individual Screened Element Diameter | | NA | |
| Overall Screen | 25 | Polyester Tape Thickness | | 0.036 mm | |
| | 26 | Tinned Drain Wire Size (Class 2) | | 0.5 mm2 | |
| | 27 | Number of Drain Wire | | 1 | |
| | 28 | Aluminium Polyester Tape Thickness | | 0.036 mm | |
| | 29 | Polyester Tape Thickness | | 0.036 mm | |
| | 30 | Over Overal Screen Diameter | | VTA | |
| Inner Sheath | 31 | Inner Sheath (Bedding) Material | | PVC 90°c (ST2) | |
| | 32 | Inner Sheath (Bedding) Thickness | | 1.5 mm | |
| Armour | 33 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 34 | Steel Wire Armours Diameter | | NA | |
| | 35 | Polypropylene (PP) Tape Thickness | | NA | |
| | 36 | Overlap percentage | | 25 % | |
| | 37 | Over Armour+Tape Diameter | | NA | |
| Outer Sheath | 38 | Sheath Material | | PVC 90°c (ST2) | |
| | 39 | Sheath Color | | Blue RAL 5015 | |
| | 40 | Sheath Thickness | | 1.3 mm | |
| Completed Cable | 41 | Completed Cable Approximate Diameter | | VTA | |
| | 42 | Cable overall diameter nominal/max mm | | VTA (SUITABLE FOR O20) | |
| Electrical | 43 | Maximum Resistance of Conductor at 20 °C | | 24.99 Ω/Km | |
| | 44 | Inductance to Resistance Ratio (L/R) | | 25 µH/Ω | |
| | 45 | Maximum Mutual Capacitance | | 150 nf/km | |
| | 46 | Maximum Capacitance Between Core to Screen | | 300 pf/250m | |
| | 47 | Dielectric Strength - Duration 1 Minute | | 2 KVac OR 3 KVdc | |
| | 48 | Maximum Conductor Temperature | | 90 °c | |
| Installation | 49 | Minimum Bending Radius | | 392 mm | |
| | 50 | Maximum Pulling Tension | | 1133 N | |
| | 51 | Packing Type | | Metal Drum | |
| | 52 | Cable Cutting | | 1*2000 meter | |
| Environmental | 53 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 54 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 55 | Flame Retardant (IEC 60332-1) | | YES | |
| | 56 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 57 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 2 x 0.75 mm2 rm 300/500 V BS EN 50288-7 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

| PROJECT: Low Linear Density Poly Ethylene (SAZ) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
|---|---|
| TITLE: ERTING Cable Data Sheet | |

# ERTING CABLE DATA SHEET

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page A |

| PROJECT: Low Linear Density Poly Ethylene (SAZ) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
|---|---|
| TITLE: Electrical Cable Data Sheet | |

| REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | X | | | | | | | | | | | | | | | | | | | |
| B | X | | | | | | | | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | | | | | | | | | |
| 7 | X | | | | | | | | | | | | | | | | | | | |
| 8 | X | | | | | | | | | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | | | | | | | | | |

| Rev. | Date | Prepared By | Checked By | Approved By | Status |
|---|---|---|---|---|---|
| 0 | 2022-01-24 | M . A | GH . K | | IFA |

**Document Revision**

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page B |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x70 rm , mm2 |
| | 5 | Cable Type | Stranded Bare Wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu2 |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60228 |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 70 mm2 |
| | 14 | Number of Conductor wires | 1*2.125 mm |
| | 15 | Diameter of Conductor wires | 10.63 mm |
| | 16 | Nominal Thickness of Phase Insulation | 2.4 mm |
| | 17 | Insulation Material | |
| | 18 | Over Phase Insulation Diameter | |
| | 19 | Color of Phase | |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 106 mm |
| | 24 | Completed Cable Approximate Weight | 619 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.268 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | |
| | 30 | Insulation Resistance Constant Ki in Normal Operation | |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | Metal Drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 70 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| | | | | | | |
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 2 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x95 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | 450/750 V |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 95 mm2 |
| | 14 | Number of Conductor wires | 461 x 0.485 mm |
| | 15 | Diameter of Conductor wires | 13.3 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.6 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 16.5 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 16.5 mm |
| | 24 | Completed Cable Approximate Weight | 936 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.206 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0032 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 95 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 3 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x70 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 70 mm2 |
| | 14 | Number of Conductor wires | 576 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 11.8 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.4 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 14.6 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 14.6 mm |
| | 24 | Completed Cable Approximate Weight | 718 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.272 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0032 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 70 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 4 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x50 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 50 mm2 |
| | 14 | Number of Conductor wires | 402 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 9.6 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.4 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 12.4 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 12.4 mm |
| | 24 | Completed Cable Approximate Weight | 515 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.386 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0037 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 50 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 5 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x35 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 35 mm2 |
| | 14 | Number of Conductor wires | 288 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 8.1 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.2 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 10.5 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 10.5 mm |
| | 24 | Completed Cable Approximate Weight | 364 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.554 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0038 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 35 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 6 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x25 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 25 mm2 |
| | 14 | Number of Conductor wires | 197 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 6.61 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1.2 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 9 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 9 mm |
| | 24 | Completed Cable Approximate Weight | 278 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 0.78 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0044 MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 25 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 7 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x10 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 10 mm2 |
| | 14 | Number of Conductor wires | 81 x 0.382 mm |
| | 15 | Diameter of Conductor wires | 4.12 mm |
| | 16 | Nominal Thickness of Phase Insulation | 1 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 6.17 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 6.2 mm |
| | 24 | Completed Cable Approximate Weight | 117 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 1.91 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.0056MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x10 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 8 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 500 Meter |
| | 4 | Cable Size | 1x6 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 6 mm2 |
| | 14 | Number of Conductor wires | 85 x 0.282 mm |
| | 15 | Diameter of Conductor wires | 3.02 mm |
| | 16 | Nominal Thickness of Phase Insulation | 0.8 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 4.8 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 4.8 mm |
| | 24 | Completed Cable Approximate Weight | 66 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 3.3 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.006MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*500 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 6 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (SAZ)

TITLE: ERTING Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 9 of 9

| | | | |
|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | |
| | 2 | Cable Service | ERTING Power |
| | 3 | Quantity | 200 Meter |
| | 4 | Cable Size | 1x4 mm2 |
| | 5 | Cable Type | Flame Retardant flexible wire |
| | 6 | Cable Designation Code | |
| | 7 | Cable Structure | Cu5/pvc |
| | 8 | Rated Voltage | |
| | 9 | Applied Standard (s) | IEC 60227-3(02) |
| Common Features | 10 | Conductor(s) Type And Material | Flexibele (Class 5) Round Annealed Copper |
| | 11 | Insulation(s) Material | |
| Conductor And Insulation | 12 | Number of Core | 1 |
| | 13 | Conductor Cruss Section | 4 mm2 |
| | 14 | Number of Conductor wires | 85 x 0.282 mm |
| | 15 | Diameter of Conductor wires | 3.02 mm |
| | 16 | Nominal Thickness of Phase Insulation | 0.8 mm |
| | 17 | Insulation Material | PVC 70 °c |
| | 18 | Over Phase Insulation Diameter | 4.8 mm |
| | 19 | Color of Phase | Y/G |
| Outer Sheath | 20 | Sheath Material | |
| | 21 | Sheath Color | |
| | 22 | Sheath Thickness | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | 4.8 mm |
| | 24 | Completed Cable Approximate Weight | 66 kg/km |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | 3.3 Ω/Km |
| | 26 | Maximum Conductor Temperature-Normal Operation | |
| | 27 | Maximum Conductor Temperature-Short Circuit | |
| | 28 | Maximum Short-Circuit Current at 1 Second | |
| | 29 | Power Frequency (AC) Test Voltage | 2500 V |
| | 30 | Minimum Insulation Resistance at 70 °C | 0.006MΩ.Km |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - ---------- n/mm2 |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 125 - --------- % |
| Installation | 33 | Minimum Bending Radius | |
| | 34 | Maximum Pulling Tension | |
| | 35 | Packing Type | wooden drum |
| | 36 | Cable Cutting | 1*200 meter |
| Environmental | 37 | Ambient Temperature | min -20 °c , max 70 °c |
| | 38 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | |
| | 40 | Flame Retardant (IEC 60332-1) | |
| | 41 | UV Resistant (UL 1581, Section 1200) | |
| | 42 | Jacket properties | |
| Jet Printed Marking | | (Cable Designation Code) 1 x 4 mm² 450/750 ISIRI (670)02 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

| PROJECT: Low Linear Density Poly Ethylene (saz) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
|---|---|
| TITLE: Electrical Cable Data Sheet | |

# ELECTRICAL CABLE DATA SHEET

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page A |

| PROJECT: Low Linear Density Poly Ethylene (saz) | CLIENT: شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
|---|---|
| TITLE: Electrical Cable Data Sheet | |

| REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 | REV. / PAGE | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | X | | | | | | | | | | | | | | | | | | | |
| B | X | | | | | | | | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | | | | | | | | | |
| 7 | X | | | | | | | | | | | | | | | | | | | |
| 8 | X | | | | | | | | | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | | | | | | | | | |
| 10 | X | | | | | | | | | | | | | | | | | | | |
| 11 | X | | | | | | | | | | | | | | | | | | | |
| 12 | X | | | | | | | | | | | | | | | | | | | |
| 13 | X | | | | | | | | | | | | | | | | | | | |
| 14 | X | | | | | | | | | | | | | | | | | | | |
| 15 | X | | | | | | | | | | | | | | | | | | | |
| 16 | X | | | | | | | | | | | | | | | | | | | |
| 17 | X | | | | | | | | | | | | | | | | | | | |

| Rev. | Date | Prepared By | Checked By | Approved By | Status |
|---|---|---|---|---|---|
| 0 | 2022-01-24 | M . A | GH . K | | IFA |

**Document Revision**

| CONTRACTOR: | LICENSOR: | Document No.: | Rev.: 0 |
|---|---|---|---|
| | | | Type: DAS |
| | | Contract Job No.: | Page B |

PROJECT: Low Linear Density Poly Ethylene (saz)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 1000 Meter | |
| | 4 | Cable Size | | 1x300 rm , mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | NYY | |
| | 7 | Cable Structure | | Cu2 / PVC / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | PVC 70°c | |
| Conductor And Insulation | 12 | Number of Core | | 1 | |
| | 13 | Conductor Cruss Section | | 300 mm2 | |
| | 14 | Number of Conductor wires | | 61 | |
| | 15 | Diameter of Conductor wires | | 3.9 mm2 | |
| | 16 | Nominal Thickness of Phase Insulation | | 2.4 mm | |
| | 17 | Insulation Material | | PVC | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black | |
| Outer Sheath | 20 | Sheath Material | | PVC 70°c (ST1) | |
| | 21 | Sheath Color | | Black | |
| | 22 | Sheath Thickness | | 1.7 mm | |
| Completed Cable | 23 | Completed Cable Approximate Diameter | | VTA | |
| | 24 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 25 | Maximum Resistance of Phase Conductor at 20 °C | | 0.0366 Ω/Km | |
| | 26 | Maximum Conductor Temperature-Normal Operation | | 70 °c | |
| | 27 | Maximum Conductor Temperature-Short Circuit | | 160 °c | |
| | 28 | Maximum Short-Circuit Current at 1 Second | | 50.0 kA | |
| | 29 | Power Frequency (AC) Test Voltage | | 5.0 kV | |
| | 30 | Insulation Resistance Constant Ki in Normal Operation | | 0.037 MΩ/km | |
| Mechanical | 31 | Minimum Tensile Strength of Insulation - Outer Sheath | | 12.5 - 12.5 N/mm2 | |
| | 32 | Minimum Elongation-at-Break of Insulation - Outer Sheath | | 150 - 150 % | |
| Installation | 33 | Minimum Bending Radius | | VTA | |
| | 34 | Maximum Pulling Tension | | VTA | |
| | 35 | Packing Type | | Metal Drum | |
| | 36 | Cable Cutting | | 1*1000 meter | |
| Environmental | 37 | Ambient Temperature | | Min -20 °c , Max 90 °c | |
| | 38 | Minimum Temperature During Installation | | -5 °c | |
| Special Properties | 39 | Fire Resistant (IEC 60331-21) | | NO | |
| | 40 | Flame Retardant (IEC 60332-1) | | YES | |
| | 41 | UV Resistant (UL 1581, Section 1200) | | YES | |
| | 42 | Jacket properties | | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) NYY 1 X 300 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | | |
| Note | | Production Tolerance. (± 5%) | | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (saz)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 1000 Meter | |
| | 4 | Cable Size | 3 x 50 rm +35 rm , mm2 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 50 mm2 | |
| | 14 | Number of Conductor wires Phase | 7 | |
| | 15 | Diameter of Conductor wires Phase | 2.97 mm2 | |
| | 16 | Round Phase Conductor Diameter | 8.5 mm | |
| | 17 | Nominal Thickness of Phase Insulation | 1 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 25 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 2.095 mm2 | |
| | 24 | Round Neutral Conductor Diameter | 6.28 mm | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.9 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.2 mm | |
| | 35 | Overlap percentage | 35 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.7 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.387 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 0.727 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 7.15 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 9506 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*1000 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 50 rm / 35 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (saz)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 1000 Meter | |
| | 4 | Cable Size | 3 x 35 rm + 16 rm , mm2 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 35 mm2 | |
| | 14 | Number of Conductor wires Phase | 7 | |
| | 15 | Diameter of Conductor wires Phase | 2.485 mm2 | |
| | 16 | Round Phase Conductor Diameter | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | 0.9 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 16 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 1.705 mm2 | |
| | 24 | Round Neutral Conductor Diameter | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.2 mm | |
| | 35 | Overlap percentage | 35 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.524 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 1.15 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 5.01 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 7832 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*1000 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 35 rm / 16 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

PROJECT: Low Linear Density Poly Ethylene (saz)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی
شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | |
|---|---|---|---|---|
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA |
| | 2 | Cable Service | Electronic Power | |
| | 3 | Quantity | 500 Meter | |
| | 4 | Cable Size | 3 x 25 rm + 10 rm , mm2 | |
| | 5 | Cable Type | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | N2XRY | |
| | 7 | Cable Structure | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | |
| | 13 | Conductor Cruss Section Phase | 25 mm2 | |
| | 14 | Number of Conductor wires Phase | 7 | |
| | 15 | Diameter of Conductor wires Phase | 2.094 mm2 | |
| | 16 | Round Phase Conductor Diameter | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | 0.9 mm | |
| | 18 | Over Phase Insulation Diameter | VTA | |
| | 19 | Color of Phase | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | |
| | 21 | Conductor Cruss Section Neutral | 16 mm2 | |
| | 22 | Number of Conductor wires Neutral | 7 | |
| | 23 | Diameter of Conductor wires Neutral | 1.705 mm2 | |
| | 24 | Round Neutral Conductor Diameter | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | VTA | |
| | 27 | Color of Neutral | Blue | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | |
| | 29 | Extruded Bedding Material | PVC | |
| | 30 | Extruded Bedding Thickness | 1 mm | |
| | 31 | Over Inner Covering Diameter | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | |
| | 33 | Steel Wire Armours Diameter | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | |
| | 35 | Overlap percentage | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | |
| | 38 | Sheath Color | Black | |
| | 39 | Sheath Thickness | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | |
| | 41 | Completed Cable Approximate Weight | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 0.727 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 1.15 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 3.58 kA | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | |
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 | |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % | |
| Installation | 51 | Minimum Bending Radius | VTA | |
| | 52 | Maximum Pulling Tension | 6708 N | |
| | 53 | Packing Type | Metal Drum | |
| | 54 | Cable Cutting | 1*500 Meter | |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c | |
| | 56 | Minimum Temperature During Installation | -5 °c | |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO | |
| | 58 | Flame Retardant (IEC 60332-1) | YES | |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES | |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof | |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 25 rm / 10 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | | |
| Note | | Production Tolerance. (± 5%) | | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
|---|---|---|---|---|---|---|
| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

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|---|---|---|---|---|---|
| | | PROJECT: Low Linear Density Poly Ethylene (saz) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 500 Meter | |
| | 4 | Cable Size | | 4 x 16 rm , mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu2 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 2) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 16 mm2 | |
| | 14 | Number of Conductor wires Phase | | 7 | |
| | 15 | Diameter of Conductor wires Phase | | 1.705 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 16 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 7 | |
| | 23 | Diameter of Conductor wires Neutral | | 1.705 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 1.6 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 1.15 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | 1.15 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 2.29 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 5358 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*500 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 16 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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|---|---|---|---|---|---|
| | | PROJECT: Low Linear Density Poly Ethylene (saz) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 2000 Meter | |
| | 4 | Cable Size | | 4 x 10 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 10 mm2 | |
| | 14 | Number of Conductor wires Phase | | 81 | |
| | 15 | Diameter of Conductor wires Phase | | 0.382 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 10 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 81 | |
| | 23 | Diameter of Conductor wires Neutral | | 0.382 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 1.25 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 1.91 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | 1.91 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 1.43 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

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|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 4083 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 10 rm mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

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| | | PROJECT: Low Linear Density Poly Ethylene (saz) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 2000 Meter | |
| | 4 | Cable Size | | 3 x 10 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 10 mm2 | |
| | 14 | Number of Conductor wires Phase | | 81 | |
| | 15 | Diameter of Conductor wires Phase | | 0.382 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | NA | |
| | 21 | Conductor Cruss Section Neutral | | NA | |
| | 22 | Number of Conductor wires Neutral | | NA | |
| | 23 | Diameter of Conductor wires Neutral | | NA | |
| | 24 | Round Neutral Conductor Diameter | | NA | |
| | 25 | Nominal Thickness of Neutral Insulation | | NA | |
| | 26 | Over Neutral Insulation Diameter | | NA | |
| | 27 | Color of Neutral | | NA | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 1.25 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 1.91 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | NA | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 1.43 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 3564 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*2000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 10 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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|---|---|---|---|---|---|
| | | PROJECT: Low Linear Density Poly Ethylene (saz) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 1000 Meter | |
| | 4 | Cable Size | | 4 x 6 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 6 mm2 | |
| | 14 | Number of Conductor wires Phase | | 85 | |
| | 15 | Diameter of Conductor wires Phase | | 0.282 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 6 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 85 | |
| | 23 | Diameter of Conductor wires Neutral | | 0.282 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 1.25 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 3.3 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | 3.3 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.86 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 3114 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*1000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 6 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

| No. | Rev | Date | Status | Prepared | Checked | Approved |
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| 1 | 0 | 2022-01-24 | IFA | M . A | GH . K | |

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| | | PROJECT: Low Linear Density Poly Ethylene (saz) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 1000 Meter | |
| | 4 | Cable Size | | 3 x 6 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 6 mm2 | |
| | 14 | Number of Conductor wires Phase | | 85 | |
| | 15 | Diameter of Conductor wires Phase | | 0.282 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | NA | |
| | 21 | Conductor Cruss Section Neutral | | NA | |
| | 22 | Number of Conductor wires Neutral | | NA | |
| | 23 | Diameter of Conductor wires Neutral | | NA | |
| | 24 | Round Neutral Conductor Diameter | | NA | |
| | 25 | Nominal Thickness of Neutral Insulation | | NA | |
| | 26 | Over Neutral Insulation Diameter | | NA | |
| | 27 | Color of Neutral | | NA | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 3.3 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | NA | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.86 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2540 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*1000 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 6 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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| | | PROJECT: Low Linear Density Poly Ethylene (saz) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | Doc. No: | | |
| | | Owner Job No: | Sheet No 1 of 6 | | |
| General Information | 1 | Cable Code / Manufacturer | VTA | VTA | |
| | 2 | Cable Service | Electronic Power | | |
| | 3 | Quantity | 1500 Meter | | |
| | 4 | Cable Size | 4 x 4 mm2 | | |
| | 5 | Cable Type | Flame Retardant Power Cable | | |
| | 6 | Cable Designation Code | N2XRY | | |
| | 7 | Cable Structure | Cu5 / XLPE / PVC / SWA / PVC | | |
| | 8 | Rated Voltage | 0.6 / 1 (1.2) kV | | |
| | 9 | Applied Standard (s) | IEC 60502-1 & IEC 60332-1 | | |
| Common Features | 10 | Conductor(s) Type And Material | Stranded (Class 5) Round Annealed Copper | | |
| | 11 | Insulation(s) Material | XLPE | | |
| Phase Conductor And Insulation | 12 | Number of Phase | 3 | | |
| | 13 | Conductor Cruss Section Phase | 4 mm2 | | |
| | 14 | Number of Conductor wires Phase | 56 | | |
| | 15 | Diameter of Conductor wires Phase | 0.282 mm2 | | |
| | 16 | Round Phase Conductor Diameter | VTA | | |
| | 17 | Nominal Thickness of Phase Insulation | 0.7 mm | | |
| | 18 | Over Phase Insulation Diameter | VTA | | |
| | 19 | Color of Phase | Black - Red - Brown | | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | 1 | | |
| | 21 | Conductor Cruss Section Neutral | 4 mm2 | | |
| | 22 | Number of Conductor wires Neutral | 56 | | |
| | 23 | Diameter of Conductor wires Neutral | 0.282 mm2 | | |
| | 24 | Round Neutral Conductor Diameter | VTA | | |
| | 25 | Nominal Thickness of Neutral Insulation | 0.7 mm | | |
| | 26 | Over Neutral Insulation Diameter | VTA | | |
| | 27 | Color of Neutral | Blue | | |
| Inner Covering | 28 | Inner Covering Type | Extruded Bedding | | |
| | 29 | Extruded Bedding Material | PVC | | |
| | 30 | Extruded Bedding Thickness | 1 mm | | |
| | 31 | Over Inner Covering Diameter | VTA | | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | VTA | | |
| | 33 | Steel Wire Armours Diameter | 0.9 mm | | |
| | 34 | Polypropylene (PP) Tape Thickness | 0.1 mm | | |
| | 35 | Overlap percentage | 25 % | | |
| | 36 | Over Single Wire Armour+Tape Diameter | VTA | | |
| Outer Sheath | 37 | Sheath Material | PVC 90°c (ST2) | | |
| | 38 | Sheath Color | Black | | |
| | 39 | Sheath Thickness | 1.6 mm | | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | VTA | | |
| | 41 | Completed Cable Approximate Weight | VTA | | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | 4.95 Ω/Km | | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | 4.95 Ω/Km | | |
| | 44 | Maximum Conductor Temperature-Normal Operation | 90 °c | | |
| | 45 | Maximum Conductor Temperature-Short Circuit | 250 °c | | |
| | 46 | Maximum Short-Circuit Current at 1 Second | 0.57 kA | | |
| | 47 | Power Frequency (AC) Test Voltage | 3.5 kV | | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km | | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2510 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*1500 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 4 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **1** | **0** | **2022-01-24** | **IFA** | **M . A** | **GH . K** | |
| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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| | | PROJECT: Low Linear Density Poly Ethylene (saz) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 1500 Meter | |
| | 4 | Cable Size | | 3 x 4 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 4 mm2 | |
| | 14 | Number of Conductor wires Phase | | 56 | |
| | 15 | Diameter of Conductor wires Phase | | 0.282 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | NA | |
| | 21 | Conductor Cruss Section Neutral | | NA | |
| | 22 | Number of Conductor wires Neutral | | NA | |
| | 23 | Diameter of Conductor wires Neutral | | NA | |
| | 24 | Round Neutral Conductor Diameter | | NA | |
| | 25 | Nominal Thickness of Neutral Insulation | | NA | |
| | 26 | Over Neutral Insulation Diameter | | NA | |
| | 27 | Color of Neutral | | NA | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 4.95 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | NA | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.86 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

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|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2218 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*1500 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 3 X 4 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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|---|---|---|---|---|---|
| | | PROJECT: Low Linear Density Poly Ethylene (saz) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 500 Meter | |
| | 4 | Cable Size | | 4 x 2.5 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 2.5 mm2 | |
| | 14 | Number of Conductor wires Phase | | 52 | |
| | 15 | Diameter of Conductor wires Phase | | 0.232 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 2.5 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 52 | |
| | 23 | Diameter of Conductor wires Neutral | | 0.232 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 7.98 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | 7.98 Ω/Km | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.36 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

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|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 2450 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 1*500 Meter |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 4 X 2.5 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

PROJECT: Low Linear Density Poly Ethylene (saz)

TITLE: Electrical Cable Data Sheet

شرکت ملی صنایع پتروشیمی

شرکت پژوهش و فناوری پتروشیمی

Contractor Job No: | Doc. No:

Owner Job No: | Sheet No 1 of 6

| | | | | | |
|---|---|---|---|---|---|
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 3000 Meter | |
| | 4 | Cable Size | | 5 x 2.5 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY-J | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 3 | |
| | 13 | Conductor Cruss Section Phase | | 2.5 mm2 | |
| | 14 | Number of Conductor wires Phase | | 52 | |
| | 15 | Diameter of Conductor wires Phase | | 0.232 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black - Red - Brown | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | 1 | |
| | 21 | Conductor Cruss Section Neutral | | 2.5 mm2 | |
| | 22 | Number of Conductor wires Neutral | | 52 | |
| | 23 | Diameter of Conductor wires Neutral | | 0.232 mm2 | |
| | 24 | Round Neutral Conductor Diameter | | VTA | |
| | 25 | Nominal Thickness of Neutral Insulation | | 0.7 mm | |
| | 26 | Over Neutral Insulation Diameter | | VTA | |
| | 27 | Color of Neutral | | Blue | |
| Earth Conductor And Insulation | 28 | Number of Earth | | 1 | |
| | 29 | Conductor Cruss Section Earth | | 2.5 mm2 | |
| | 30 | Number of Conductor wires Earth | | 52 | |
| | 31 | Diameter of Conductor wires Earth | | 0.232 mm2 | |
| | 32 | Round Earth Conductor Diameter | | VTA | |
| | 33 | Nominal Thickness of Earth Insulation | | 0.7 mm | |
| | 34 | Over Earth Insulation Diameter | | VTA | |
| | 35 | Color of Earth | | Yellow / Green | |
| Inner Covering | 36 | Inner Covering Type | | Extruded Bedding | |
| | 37 | Extruded Bedding Material | | PVC | |
| | 38 | Extruded Bedding Thickness | | 1 mm | |
| | 39 | Over Inner Covering Diameter | | VTA | |
| Armour | 40 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 41 | Steel Wire Armours Diameter | | 0.9 mm | |
| | 42 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 43 | Overlap percentage | | 25 % | |
| | 44 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 45 | Sheath Material | | PVC 90°c (ST2) | |
| | 46 | Sheath Color | | Black | |
| | 47 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 48 | Completed Cable Approximate Diameter | | VTA | |
| | 49 | Completed Cable Approximate Weight | | VTA | |
| | 50 | Maximum Resistance of Phase Conductor at 20 °C | | 7.98 Ω/Km | |
| | 51 | Maximum Resistance of Neutral Conductor at 20 °C | | 7.98 Ω/Km | |
| | 52 | Maximum Resistance of Earth Conductor at 20 °C | | 7.98 Ω/Km | |

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|---|---|---|---|
| Electrical | 53 | Maximum Conductor Temperature-Normal Operation | 90 °c |
| | 54 | Maximum Conductor Temperature-Short Circuit | 250 °c |
| | 55 | Maximum Short-Circuit Current at 1 Second | 0.36 kA |
| | 56 | Power Frequency (AC) Test Voltage | 3.5 kV |
| | 57 | Insulation Resistance Constant Ki in Normal Operation | 3.67 MΩ/km |
| Mechanical | 58 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 59 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 60 | Minimum Bending Radius | VTA |
| | 61 | Maximum Pulling Tension | 2450 N |
| | 62 | Packing Type | Metal Drum |
| | 63 | Cable Cutting | 1*3000 Meter |
| Environmental | 64 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 65 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 66 | Fire Resistant (IEC 60331-21) | NO |
| | 67 | Flame Retardant (IEC 60332-1) | YES |
| | 68 | UV Resistant (UL 1581, Section 1200) | YES |
| | 69 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY-J 5 X 2.5 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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| **No.** | **Rev** | **Date** | **Status** | **Prepared** | **Checked** | **Approved** |

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| | | PROJECT: Low Linear Density Poly Ethylene (saz) | | | شرکت ملی صنایع پتروشیمی<br>شرکت پژوهش و فناوری پتروشیمی |
| | | TITLE: Electrical Cable Data Sheet | | | |
| | | Contractor Job No: | | Doc. No: | |
| | | Owner Job No: | | Sheet No 1 of 6 | |
| General Information | 1 | Cable Code | Manufacturer | VTA | VTA |
| | 2 | Cable Service | | Electronic Power | |
| | 3 | Quantity | | 6000 Meter | |
| | 4 | Cable Size | | 10 x 2.5 mm2 | |
| | 5 | Cable Type | | Flame Retardant Power Cable | |
| | 6 | Cable Designation Code | | N2XRY | |
| | 7 | Cable Structure | | Cu5 / XLPE / PVC / SWA / PVC | |
| | 8 | Rated Voltage | | 0.6 / 1 (1.2) kV | |
| | 9 | Applied Standard (s) | | IEC 60502-1 & IEC 60332-1 | |
| Common Features | 10 | Conductor(s) Type And Material | | Stranded (Class 5) Round Annealed Copper | |
| | 11 | Insulation(s) Material | | XLPE | |
| Phase Conductor And Insulation | 12 | Number of Phase | | 10 | |
| | 13 | Conductor Cruss Section Phase | | 2.5 mm2 | |
| | 14 | Number of Conductor wires Phase | | 52 | |
| | 15 | Diameter of Conductor wires Phase | | 0.232 mm2 | |
| | 16 | Round Phase Conductor Diameter | | VTA | |
| | 17 | Nominal Thickness of Phase Insulation | | 0.7 mm | |
| | 18 | Over Phase Insulation Diameter | | VTA | |
| | 19 | Color of Phase | | Black with White Number | |
| Neutral Conductor And Insulation | 20 | Number of Neutral | | NA | |
| | 21 | Conductor Cruss Section Neutral | | NA | |
| | 22 | Number of Conductor wires Neutral | | NA | |
| | 23 | Diameter of Conductor wires Neutral | | NA | |
| | 24 | Round Neutral Conductor Diameter | | NA | |
| | 25 | Nominal Thickness of Neutral Insulation | | NA | |
| | 26 | Over Neutral Insulation Diameter | | NA | |
| | 27 | Color of Neutral | | NA | |
| Inner Covering | 28 | Inner Covering Type | | Extruded Bedding | |
| | 29 | Extruded Bedding Material | | PVC | |
| | 30 | Extruded Bedding Thickness | | 1 mm | |
| | 31 | Over Inner Covering Diameter | | VTA | |
| Armour | 32 | Under Galvanized Steel Wire Armour Diameter | | VTA | |
| | 33 | Steel Wire Armours Diameter | | 1.25 mm | |
| | 34 | Polypropylene (PP) Tape Thickness | | 0.1 mm | |
| | 35 | Overlap percentage | | 25 % | |
| | 36 | Over Single Wire Armour+Tape Diameter | | VTA | |
| Outer Sheath | 37 | Sheath Material | | PVC 90°c (ST2) | |
| | 38 | Sheath Color | | Black | |
| | 39 | Sheath Thickness | | 1.6 mm | |
| Completed Cable | 40 | Completed Cable Approximate Diameter | | VTA | |
| | 41 | Completed Cable Approximate Weight | | VTA | |
| Electrical | 42 | Maximum Resistance of Phase Conductor at 20 °C | | 7.98 Ω/Km | |
| | 43 | Maximum Resistance of Neutral Conductor at 20 °C | | NA | |
| | 44 | Maximum Conductor Temperature-Normal Operation | | 90 °c | |
| | 45 | Maximum Conductor Temperature-Short Circuit | | 250 °c | |
| | 46 | Maximum Short-Circuit Current at 1 Second | | 0.36 kA | |
| | 47 | Power Frequency (AC) Test Voltage | | 3.5 kV | |
| | 48 | Insulation Resistance Constant Ki in Normal Operation | | 3.67 MΩ/km | |

| | | | |
|---|---|---|---|
| Mechanical | 49 | Minimum Tensile Strength of Insulation - Outer Sheath | 12.5 - 12.5 N/mm2 |
| | 50 | Minimum Elongation-at-Break of Insulation - Outer Sheath | 200 - 150 % |
| Installation | 51 | Minimum Bending Radius | VTA |
| | 52 | Maximum Pulling Tension | 4238 N |
| | 53 | Packing Type | Metal Drum |
| | 54 | Cable Cutting | 3*2000 |
| Environmental | 55 | Ambient Temperature | Min -20 °c , Max 90 °c |
| | 56 | Minimum Temperature During Installation | -5 °c |
| Special Properties | 57 | Fire Resistant (IEC 60331-21) | NO |
| | 58 | Flame Retardant (IEC 60332-1) | YES |
| | 59 | UV Resistant (UL 1581, Section 1200) | YES |
| | 60 | Jacket properties | Flame retardant; Abrasion resistent; Oil proof |
| Jet Printed Marking | | (Cable Designation Code) N2XRY 10 X 2.5 mm² 0.6/1 kV ISIRI 3569-1 IRAN n Meter n | |
| Note | | Production Tolerance. (± 5%) | |

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