

TELECOM CABLE-INSTRUMENTATION CABLE

Cable Description:

Conductor:

0.5mm² (7/0.30mm); 1.0mm² (14/0.30mm) and 1.5mm² (19/0.30mm) plain annealed copper wire in accordance with SANS 1411, Part 1 class 2

Insulation:

Cross linked polyethylene (XLPE) compound in accordance with SANS 1411, Part 4

Core Identification:

Black and white insulated cores; numbered alpha and numerically, at regular intervals

Individual and / or overall screen:

Individual screen: Aluminium/polyester tape with a 7/0.30mm 0.50mm² sized tinned annealed copper drain wire. All individual screens are numbered alpha and numerically, at regular intervals

Overall screen: Aluminium/polyester tape with a 7/0.30mm 0.50mm² sized tinned annealed copper drain wire

Bedding sheath:

Polyvinyl chloride (PVC) compound in accordance with SANS 1411, Part 2 type B1. The standard bedding sheath colour is black

Final sheath and / or armouring:

Aluminium polyethylene laminated (APL) tape over a 7/0.30mm 0.50mm² sized tinned annealed copper drain wire. Polyethylene (PE) compound in accordance with SANS 1411, Part 7, type P54. The standard outer sheath colour is black

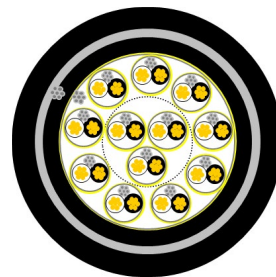
Multi-pair; 0.5, 1.0, 2.5mm² conductor, XLPE Insulation, individually and overall screened, PVC bedding, APL armour, Polyethylene sheath

General Data:

Typical Applications:

Used For Transmission of analogue and digital signals in instrumentation and control systems, not allowed for direct connection to low impedance sources, e.g, public mains electricity supply

Recommended For Indoor and outdoor installations on racks, trays, or conduits, in dry or wet locations; not for direct burial



Technical Information and Photographs from CBI electric

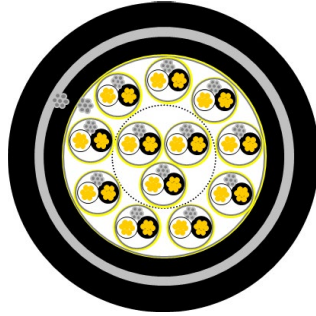
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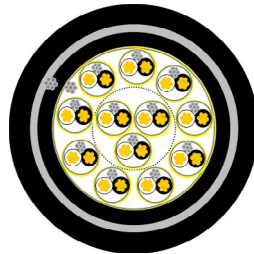
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Product Information:

| Electrical Characteristics | | 0.5mm ² | 1.0mm ² | 1.5mm ² |
|-------------------------------------|------------------|----------------------------|--------------------|--------------------|
| Conductor resistance at 20 °C | (max Ω/km) | 39.6 | 19.5 | 14.4 |
| Insulation resistance at 20 °C | (min GΩ/km) | 5 | 5 | 5 |
| Core to core capacitance at 20 °C | (nom nF/km) | 95 | 115 | 130 |
| Core to screen capacitance at 20 °C | (nom nF/km) | 190 | 230 | 260 |
| Inductance | (nom mH/km) | 0.72 | 0.64 | 0.63 |
| Test Voltage (kV DC) | Core to core | 1.5 | 1.5 | 1.5 |
| | Core to screen | 1.0 | 1.0 | 1.0 |
| | Screen to screen | 0.5 | 0.5 | 0.5 |
| Operating Voltage | (max V) | 300 | 300 | 300 |
| Physical Characteristics | | | | |
| Operating Temperature (max) | (°C) | 90 | 90 | 90 |
| Fire Retardancy | | n/a | n/a | n/a |
| Bending Radius (min) | (mm) | 9 x overall cable diameter | | |

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| Product Description | Bedding Diameter under APL (mm) | Overall Diameter (mm) | Cable Weight (kg / 1000m) | Standard Drum (Length / m) |
|--|------------------------------------|--------------------------|------------------------------|-------------------------------|
| 2 Pair 0.5mm ² XLPE I/OAM APL/PE | 9.5 | 13.0 | 152 | 1000 |
| 4 Pair 0.5mm ² XLPE I/OAM APL/PE | 11.4 | 15.7 | 235 | 1000 |
| 8 Pair 0.5mm ² XLPE I/OAM APL/PE | 13.9 | 18.0 | 318 | 1000 |
| 12 Pair 0.5mm ² XLPE I/OAM APL/PE | 17.4 | 21.7 | 435 | 1000 |
| 16 Pair 0.5mm ² XLPE I/OAM APL/PE | 19.8 | 23.7 | 582 | 1000 |
| 24 Pair 0.5mm ² XLPE I/OAM APL/PE | 23.6 | 28.1 | 748 | 1000 |
| 2 Pair 1.0mm ² XLPE I/OAM APL/PE | 11.6 | 15.5 | 223 | 1000 |
| 4 Pair 1.0mm ² XLPE I/OAM APL/PE | 13.1 | 17.2 | 278 | 1000 |
| 8 Pair 1.0mm ² XLPE I/OAM APL/PE | 17.4 | 21.3 | 465 | 1000 |
| 12 Pair 1.0mm ² XLPE I/OAM APL/PE | 21.3 | 25.0 | 621 | 1000 |
| 16 Pair 1.0mm ² XLPE I/OAM APL/PE | 24.5 | 29.1 | 823 | 1000 |
| 24 Pair 1.0mm ² XLPE I/OAM APL/PE | 28.8 | 33.3 | 1092 | 1000 |
| 2 Pair 1.5mm ² XLPE I/OAM APL/PE | 12.7 | 16.6 | 250 | 1000 |
| 4 Pair 1.5mm ² XLPE I/OAM APL/PE | 14.7 | 18.2 | 334 | 1000 |
| 8 Pair 1.5mm ² XLPE I/OAM APL/PE | 19.1 | 23.4 | 562 | 1000 |
| 12 Pair 1.5mm ² XLPE I/OAM APL/PE | 24.2 | 28.1 | 787 | 1000 |
| 16 Pair 1.5mm ² XLPE I/OAM APL/PE | 27.0 | 32.5 | 998 | 1000 |
| 24 Pair 1.5mm ² XLPE I/OAM APL/PE | 32.6 | 37.1 | 1398 | 1000 |

Complete your Project:

Please select the items you require and we will be in touch

Cables and Wires:

Indoor
Outdoor
General
Other
Let an ACTOM
Specialist Contact you

Lighting:

Indoor
Outdoor
General
Other
Let an ACTOM
Specialist Contact you

Transformers (Distribution):

Indoor
Outdoor
General
Other
Let an ACTOM
Specialist Contact you

Accessories:

Indoor
Outdoor
General
Other
Let an ACTOM
Specialist Contact you

Specific Information:

Address: 4 Branch Road, Germiston 1401, P.O. Box 678, Germiston 1400

For more Information on this Product Please Send us the Following

Product Information:

Product Name:

Quantity:

Project Name:

Date the Product is required:

Your Contact Information:

Name and Surname:

Company:

Email:

Phone Number:

Province:

Thank You

For having a Look at this Product

Please send this PDF back to us with all your Information

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