ELECTRICAL PRODUCTS

# TELECOM CABLE-INSTRUMENTATION CABLE

## Cable Description:

**Multi-pair; 0.5, 1.0, 1.5mm² conductor, XLPE Insulation, individually and overall screened, PVC bedding, SW armour, PVC outer sheath**

**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 polytethylene (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:**

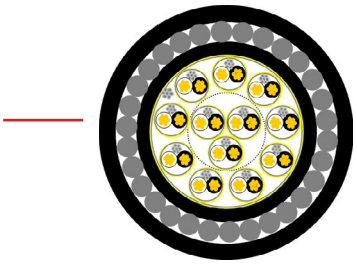
Single layer of galvanised steel wire armour (SWA) over bedding layer.

Polyvinyl chloride (PVC) compound in accordance with SANS 1411, Part 2, type S5. The standard outer sheath colour is black

## 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; for direct burial |



CBI electric telecom cables

**Technical Information and Photographs from CBI electric**

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

Email: aep.enquiries@actom.co.za Tel: +27 11 878 3050 Website: www.actomep.co.za

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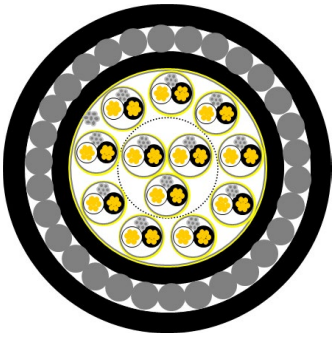

## Product Information:

| Electrical Characteristics | | 0.5mm² | 1.0mm² | 1.5mm² |
|---|---|---|---|---|
| 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 | | Comply to IEC 60332 part 3 Category C | | |
| Bending Radius (min) | (mm) | 10 x overall cable diameter | | |

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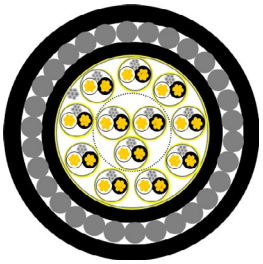

| Product Description | Bedding Diameter under APL (mm) | Overall Diameter (mm) | Cable Weight (kg / 1000m) | Standard Drum (Length / m) |
|---|---|---|---|---|
| 2 Pair 0.5mm² XLPE I/OAM PVC SWA PVC | 9.5 | 13.7 | 331 | 1000 |
| 4 Pair 0.5mm² XLPE I/OAM PVC SWA PVC | 11.4 | 17.8 | 639 | 1000 |
| 8 Pair 0.5mm² XLPE I/OAM PVC SWA PVC | 13.9 | 20.7 | 835 | 1000 |
| 12 Pair 0.5mm² XLPE I/OAM PVC SWA PVC | 17.4 | 24.2 | 1064 | 1000 |
| 16 Pair 0.5mm² XLPE I/OAM PVC SWA PVC | 19.8 | 27.8 | 1459 | 1000 |
| 24 Pair 0.5mm² XLPE I/OAM PVC SWA PVC | 23.6 | 32.1 | 1825 | 1000 |
| 2 Pair 1.0mm² XLPE I/OAM PVC SWA PVC | 11.6 | 15.8 | 432 | 1000 |
| 4 Pair 1.0mm² XLPE I/OAM PVC SWA PVC | 13.1 | 19.5 | 743 | 1000 |
| 8 Pair 1.0mm² XLPE I/OAM PVC SWA PVC | 17.4 | 23.8 | 1081 | 1000 |
| 12 Pair 1.0mm² XLPE I/OAM PVC SWA PVC | 21.3 | 29.3 | 1582 | 1000 |
| 16 Pair 1.0mm² XLPE I/OAM PVC SWA PVC | 24.5 | 33.3 | 1985 | 1000 |
| 24 Pair 1.0mm² XLPE I/OAM PVC SWA PVC | 28.8 | 27.6 | 2445 | 1000 |
| 2 Pair 1.5mm² XLPE I/OAM PVC SWA PVC | 12.7 | 16.9 | 328 | 1000 |
| 4 Pair 1.5mm² XLPE I/OAM PVC SWA PVC | 14.7 | 21.5 | 874 | 1000 |
| 8 Pair 1.5mm² XLPE I/OAM PVC SWA PVC | 19.1 | 27.1 | 1431 | 1000 |
| 12 Pair 1.5mm² XLPE I/OAM PVC SWA PVC | 24.2 | 32.6 | 1912 | 1000 |
| 16 Pair 1.5mm² XLPE I/OAM PVC SWA PVC | 27.0 | 32.2 | 2265 | 1000 |
| 24 Pair 1.5mm² XLPE I/OAM PVC SWA PVC | 32.6 | 42.8 | 3293 | 1000 |

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# 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:

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# For more Information on this Product

## Please Send us the Folowing

### 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**

**Scan the QR Code to visit our Website:**

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