

Instrumentation Cables

XLPE Insulated, 500V

HFFR SWA Armoured HFFR Cable



C5922, C5923

Applications

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants (e.g. petrochemical industry etc.). Suitable for direct burial applications.

Design

| Unit | Properties |
|------------------------|---|
| Conductor | Class 2 Plain Copper Wire |
| Insulation | Cross-linked Polyethylene (XLPE) Color: White and Black numbered |
| Cabling | Cores cabled together |
| Overall Screen | Al/PET Tape |
| Bedding | Halogen Free Flame Retardancy (HFFR) |
| Armour | Galvanized Steel Wire Armour |
| Outer Sheath Material | UV Resistant Halogen Free Flame Retardancy (HFFR) Standard Colour: Black |
| Standard Put Up Length | 305M or 500m |

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

Electrical Characteristics at 20°C

| Conductor Size(sqmm) | Max. DCR (Ohm/km) | Max. Mutual Capacitance (pF/m) at 1KHz | Max. L/R ratio (μH/Ω) | Min Insulation Resistance (GOhm/km) | Voltage Rating (V) | Operating Temperature (°C) |
|----------------------|-------------------|--|-----------------------|-------------------------------------|--------------------|----------------------------|
| 2.50 | 7.41 | 150 | 25 | 1.0 | 500 | +90 |

Constructional Information

| PN | Number of Cores | Conductor Construction (sq mm) | Insulation Thickness (mm) | Bedding Diameter(mm) | SWA Armour Wire Diameter (mm) | Overall Diameter (mm) |
|-------|-----------------|--------------------------------|---------------------------|----------------------|-------------------------------|-----------------------|
| C5922 | 12 | 2.50 | 0.70 | 15.6 | 0.90 | 21.3 |
| C5923 | 21 | 2.50 | 0.70 | 21.1 | 1.25 | 27.0 |

Reference Standards

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|-----------------|------------|
| BS 60502-1 | EN 50290-2 |
| BS EN 60228 | IEC60332-1 |
| RoHS directives | |