



# Caledonian

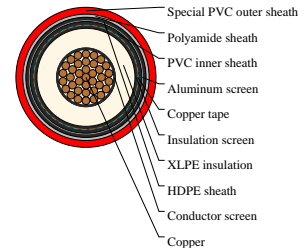
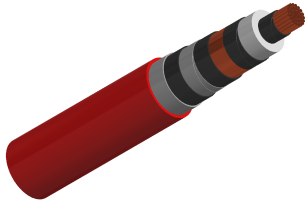
Cables For Oil Industry

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## Medium Voltage XLPE Insulated Overall Screened Cable to IEC 60502-2

XLPE Insulated Overall Screened Cable 1C120



### APPLICATIONS

These cables are suitable for installation mostly in power supply stations, indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries.

### STANDARDS

IEC 60228; IEC 60502-2

### VOLTAGE RATING

12 / 20 (24) KV

### CABLE CONSTRUCTION

Conductor: Stranded bare copper (class 2)

Conductor screen: This will be an extruded layer of semi-conducting crosslinkable compound applied under simultaneous triple extrusion process over the conductor along with the insulation and the insulation screen

Insulation: XLPE

Insulation screen: This will be a layer of semi-conducting crosslinkable compound which will be applied by triple extrusion process over the insulation

Inner sheath: PVC Color: black

Overall screen: Aluminum/polyethylene tape

Sheath: HDPE Color: black

Special sheath (intermediate sheath): Polyamide

Outer sheath: Special PVC. Color: red. U.V resistance can be offered upon request

### COLOUR CODE

1 Core: Natural

### PHYSICAL AND THERMAL PROPERTIES

Fire retardance: IEC 60332-3-22

Operating temperature: -20~60°C

Max. conductor operating temperature: 90°C

Chemical resistance: Aliphatic and aromatic hydrocarbon resistance



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## DIMENSION AND PARAMETERS

| No. of Cores | Nominal Cross-sectional Area | Nominal Diameter over Insulation | Diameter Over Intermediate Sheath | Diameter Over Inner Sheath | Overall Diameter (min.) | Overall Diameter (max.) | Diameter over Screen | Approx. Weight |
|--------------|------------------------------|----------------------------------|-----------------------------------|----------------------------|-------------------------|-------------------------|----------------------|----------------|
|              | mm <sup>2</sup>              | mm                               | mm                                | mm                         | mm                      | mm                      | mm                   | kg/km          |
| 1            | 120                          | 25.06                            | 33.1                              | 28.8                       | 36.2                    | 39.9                    | 26.5                 | 2276           |