



# Caledonian

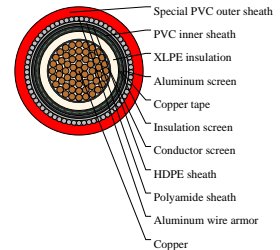
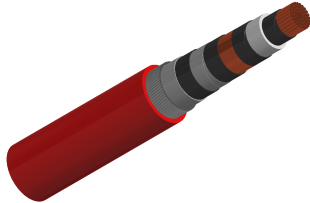
Cables For Oil Industry

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## Medium Voltage XLPE Insulated Overall Screened & Aluminum Wire Armored Cable to IEC 60502-2

XLPE Insulated Overall Screened Aluminum Wire Armored Cable 1C300



### 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, switchboards and power stations, where require chemical and mechanical protection.

### STANDARDS

IEC 60228; IEC 60502-2

### VOLTAGE RATING

3.6 / 6 (7.2) 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

Overall screen: Aluminum/polyethylene tape

Sheath: HDPE Color: black

Special sheath (intermediate sheath): Polyamide

Armor: Aluminium wires

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



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Chemical resistance: Aliphatic and aromatic hydrocarbon resistance

## 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.) | Nominal Diameter Over Armour | Diameter over Screen | Approx. Weight |
|--------------|------------------------------|----------------------------------|-----------------------------------|----------------------------|-------------------------|-------------------------|------------------------------|----------------------|----------------|
|              | mm <sup>2</sup>              | mm                               | mm                                | mm                         | mm                      | mm                      | mm                           | mm                   | kg/km          |
| 1            | 300                          | 27.4                             | 35.5                              | 31.2                       | 44.1                    | 48.7                    | 39.2                         | 28.8                 | 4521           |