

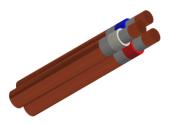
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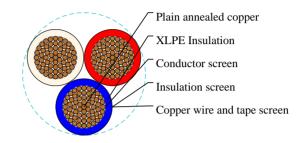
Medium Voltage Cables www.caledonian-cables.com

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#### Caledonian Medium Voltage Cables 3C500

Unarmoured cables





# **APPLICATIONS**

This product is used for an underground distribution cable for the lead-out parts of substations of general power distribution lines including high-capacity power distribution, cable tunnels, pipelines, directly embedded types, raising parts of telephone poles, etc.

#### **STANDARDS**

JIS C 3606-2003 (6600V)

VOLTAGE RATING

17KV

# CABLE CONSTRUCTION

Conductor: Plain annealed copper with JCS C 3102.

Conductor Screen: The conductor screen consists of an extruded layer of non metallic,semi-conducting compound firmly bonded to the insulation to exclude all air voids. Insulation: XLPE.

Insulation Screen: The insulation screen consists of an extruded layer of non metallic, semiconducting compound extruded over the insulation. The extruded semi-conducting layershall consist of bonded or cold strippable semi-conducting compound capable of removalfor jointing or terminating. As an option, a semi-conducting tape may be applied over the extruded semi-conducting layer as a bedding for the metallic layer. The minimum thickness is0.5 mm. The screen is tightly fitted to the insulation to exclude all air voids and can be easilyhand stripped on site. Metallic Sreen: By sufficiently winding of a soft copper tape on an external semiconductivelayer, each core shall be shielded, the tape is wound with overlapping about one-sixth of itswidth or the equivalent of that. Over Sheath: Black, PVC or PE.

# COLOUR CODE

Identification of wire cores:Wire core identification shall be performed with 3 colors, that is, white, red and blue.

# PHYSICAL AND THERMAL PROPERTIES

Operating Temperature: up to 120°C Cold Resistant: -15  $\pm$  0.5 °C



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# **TECHNICAL CHARACTERISTICS**

Nom. Cross-Section Area	Max.Conductor DC Resistance @20°C	Insulation Resistance @20°C	Electrostatic Capacitance
mm²	Ohm/km	MegOhm.km	μF/km
500	0.0376	900	0.74

#### DIMENSION AND PARAMETERS

Nominal Cross- sectional Area	Nominal Insulation Thickness	Nominal Sheath Thickness	Diameter Of Core	Approx. Overall Diameter	Approx. Weight
mm²	mm	mm	mm	mm	kg/km
500	4.5	3.5	45	98	17000