



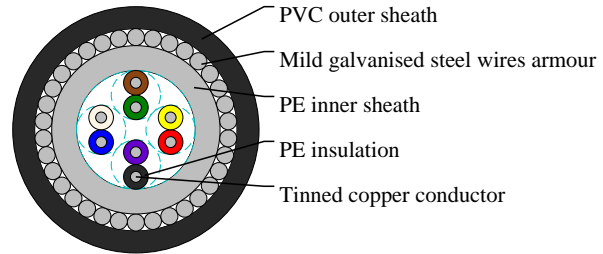
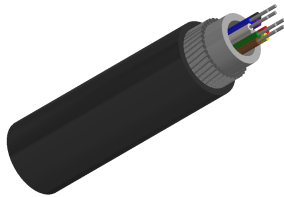
Caledonian

Telecommunication cables

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Auxiliary Multipair Cables 15KV 4P0.5



APPLICATIONS

These control cables are primarily for use with control, indication and alarm equipment for switchgear and similar power apparatus in power stations and substations. Rated for use in areas where the induced voltage does not exceed 15 kV.

STANDARDS

ENATS 09-6 ISSUE 9

Flame Retardant: IEC 60332-3-24

VOLTAGE RATING

15KV

CABLE CONSTRUCTION

Conductors : Solid(Class 1) tinned copper conductors to BS EN 60228.

Insulation : PE insulation to BS7655.

Pair Identification : See colour code.

Inner Sheath : PE inner sheath to BS7655

Armouring : Mild galvanised steel wires to BS EN10257-1.

Outer Sheath : PVC outer sheath to BS7655.

COLOUR CODE

ENATS 09-6 Issue 9 * Table 1

PHYSICAL AND THERMAL PROPERTIES

PROPERTIES FOR CABLE:

Temperature Rating : 70°C maximum conductor operating temperature

Minimum Bending Radius: 10 X O.D.

PROPERTIES FOR OUTER SHEATH:

Amount of halogen acid gas: HCl < 15%

Sunlight Resistance: UL 1581 Section 1200

Temperature Installation: -5°C/50°C

Temperature Operating: -30°C/50°C

Electrical Properties



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ELECTRICAL DATA @ 20°C:

Conductor resistance (Solid / Class 1):36 Ω /km(Max.)

Insulation resistance (Individual conductor):9000 M Ω xkm(Min.)

Mutual capacitance 1kHz (Nominal equivalent star):40 nF/km(Max.)

Test voltage:Ums core:10000V(core)

Ums core:15000V(armour)

DIMENSION AND PARAMETERS

| No. of Cores | Nominal Cross-sectional Area | Nominal Insulation Thickness | Nominal Inner Sheath Thickness | Diameter Over Inner Sheath (min.) | Nominal Armour Wire Diameter | Nominal Outer Sheath Thickness | Approx. Overall Diameter | Appr. Copper Weight |
|--------------|------------------------------|------------------------------|--------------------------------|-----------------------------------|------------------------------|--------------------------------|--------------------------|---------------------|
| | mm ² | mm | mm | mm | mm | mm | mm | kg/km |
| 4 | 0.5 | 0.8 | 1.8 | 13.84 | 1.25 | 1.6 | 19.54 | 638 |