



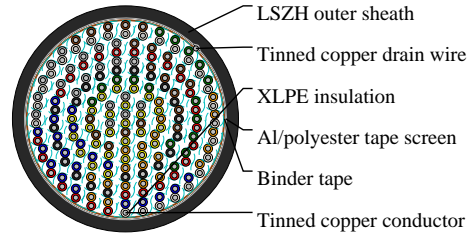
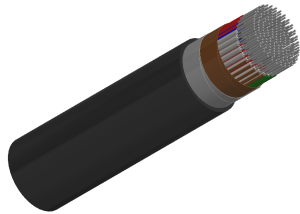
Caledonian

Telecommunication cables

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Auxiliary Multipair Cables - SCREEN LSZH 100P0.5



APPLICATIONS

These light current control cables are intended primarily for use with control, indication and alarm equipment for switchgear and similar power apparatus in power stations and substations. Suitable for use on circuits where the nominal voltage does not exceed 150V d.c. or 110V a.c. Suitable for direct buried applications.

STANDARDS

ENATS 09-6 ISSUE 9

Flame Retardant: IEC 60332-3-22

Low Smoke Emission: IEC 61034-1-2

VOLTAGE RATING

150V d.c./110V a.c

CABLE CONSTRUCTION

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

Insulation : XLPE insulation to BS7655.

Pair Identification : See colour code.

Binder Tape : p.e.t.p. tape of suitable overlap.

Collective Screen : tinned copper drain wire under and in contact with aluminium/p.e.t.p. laminated tape applied metallic side down.

Outer Sheath : Black LSZH outer sheath to BS7655.

COLOUR CODE

ENATS 09-6 Issue 9 * Table 1

PHYSICAL AND THERMAL PROPERTIES

PROPERTIES FOR CABLE:

Low Smoke Emission: IEC 61034-1-2 > 60%

Temperature Rating: 70°C maximum conductor operating temperature

Minimum Bending Radius: 10 X O.D.

PROPERTIES FOR OUTER SHEATH:

Limiting Oxygen Index: LOI > 30%

Amount of halogen acid gas: IEC 60754-1 HCl < 0.1%



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Oil Resistance:ANSI/ICEA S-73-532 (4h, 70°C)

Sunlight Resistance:UL 1581 Section 1200

Temperature Installation:-15°C/50°C

Temperature Operating:-40°C/50°C

Electrical Properties

ELECTRICAL DATA @ 20°C:

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

Insulation resistance :(Individual conductor):80 MΩxkm(Min.)

Mutual capacitance 1kHz (core to core):150 nF/km(Max.)

Mutual inductance:50μH/Ω(Max.)

Test voltage:Ums core:2000V(core)

DIMENSION AND PARAMETERS

| No. of Cores | Nominal Cross-sectional Area | Nominal Insulation Thickness | Nominal Outer Sheath Thickness | Approx. Overall Diameter | Appr. Copper Weight |
|--------------|------------------------------|------------------------------|--------------------------------|--------------------------|---------------------|
| | mm ² | mm | mm | mm | kg/km |
| 100 | 0.5 | 0.3 | 1.9 | 32.28 | 1486 |