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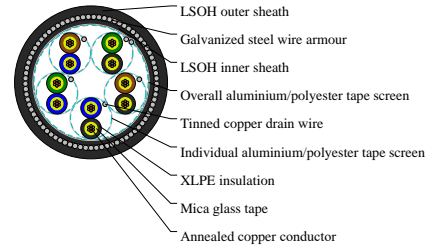
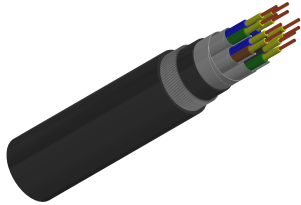
BS 5308 Instrumentation Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

BS5308 Part 1 / Type 1 (Armoured Cables)

MG-XLPE-IS-OS-SWA-LSOH 5P1



APPLICATIONS

The armoured fire resistant versions (Part 1 Type 2) are typically used in chemical and process industries where there is danger of fire. The galvanized steel wire armour provides excellent protection.

CABLE CONSTRUCTION

Conductor :Annealed or tinned copper, Class 2

Insulation:Mica glass tape, XLPE (Cross Linked Polyethylene), or PE (optional)

Pairing: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm

Individual screen :Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm²

Binder tape: PETP transparent tape

Collective screen :Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm²

Inner Sheath: LSOH(Low Smoke Zero Halogen) sheath

Amour: Galvanized steel wire armour

Outer sheath:LSOH(Low Smoke Zero Halogen) sheath

Flame retardant to IEC60332-3-22

Fire resistant to IEC60331

Halogen free to IEC60754-1

Low smoke emission to IEC61034-1-2

COLOUR CODE

Insulation colour code :See technical information

Sheath colour: Black or blue

PHYSICAL AND THERMAL PROPERTIES

Operating temperature:

-20°C up to + 90°C(fixed installation)

0°C to +50°C(during operation)

Minimum bending radius:

6 x overall diameter



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Electrical Properties

Conductor Area Size:1 mm²

Conductor Stranding(No.xmm):7x0.44

Conductor resistance(max):18.1 ohm/km

Insulation resistance(min):5 Gohm/km

Capacitance unbalance at 1kHz(pair to pair screen):250 pF/250m

Max. Mutual Capacitance @ 1kHz for Non OS or OS cables(except 1 pair and 2 pairs):75 pF/m

Max. Mutual Capacitance @ 1kHz IS/OS cables (include 1 pair and 2 pairs):115 pF/m

Max. L/R Ratio for adjacent cores(Inductance/Resistance):25 µH/ohm

Test voltage :

Core to core:1000 V

Core to screen:1000V

Rated voltage max:300/500 V

DIMENSION AND PARAMETERS

No. of Pairs	No. and Dia. of Wires	Nominal Conductor Cross-Sectional Area	Nominal Insulation Thickness	Nominal Bedding Thickness	Nominal Dia. over Bedding	Nominal Sheath Thickness	Nominal Steel Wire Armour Diameter
	no./mm	mm ²	mm	mm	mm	mm	mm
5	7/0.44	1	0.6	0.8	14.8	1.4	0.9