

FR-STH - FIREZERO - MULTIPAIR... BS 7629-2... 300/500 V
HALOGEN-FREE, PAIRED SCREENED FIRE CABLES



APPLICATION: These fire resistant and halogen free, cores twisted pair screened cables are especially meet the standard requirements for Fire Detection and Alarm Systems in BS 5839-1:2002 and codes of Practice for Emergency Lighting in BS 5266-1. These cables are intended primarily for use in fire alarm and emergency lighting to satisfy the system circuit integrity. And also screen provides protection against external pulses. These cables are used at schools, airports, hospitals, etc. and in the environments which have no corrosive gases are emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low. These cables are not intended for outdoor or underground installation.

CABLE DESIGN

Conductor	: Copper wire ,plain, solid-core or stranded BS 6360 Cls. 1&2, BS EN 60228 Cls. 1&2
Insulation	: Halogen-free elastomer comp., BS 7655, EI2
Pair	: Two conductors twisted to a pair
Core identification	: According to BS 7629-1, colour coded
Lay-up	: Pairs laid up in layers of optimum pitch
Separator	: Polyester tape
Wrapping	: Fiber glass textile tape
Screen	: With tinned copper drain wire under the AL-PES (aluminium polyester) tape
Outer sheath	: LSZH compound, LST3, BS 7655
Sheath colour	: RARAL 3000, Red

LSZH : Low Smoke Zero Halogen

TECHNICAL DATA

Standard	: BS 7629-2
Insulation resistance	: Min. 300 MΩ.km
Mutual Capacitance(800 Hz)	: d/d-c/c max. 160 pF/m d/e-c/s max. 270 pF/m
Rated voltage U _o /U	: 300 / 500 kV (U _{rms} : 550 V)
Test voltage (AC 50 Hz)	: 2000 V
Temperature range	: - 40 °C ~ + 90 °C
Min. bending radius	: 6 x D
Smoke density test	: IEC 61034-2 & BS EN 61034-2
Halogen-free properties test	: IEC60754-1/2 & BS EN 50267-2
Flame test	: IEC 60332-1 & BS EN 50265-2-1 IEC 60332-3 & BS EN 50266-2-4
Insulation integrity	: IEC 60331-21
Fire resis. with mech. shock	: BS EN 50200; PH30~PH120
Circuit integrity	: BS 5839-1:2002 / 26.2d &2e BS 6387 C, W & Z

Cross Sections

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1926 13 002	2x2x1	12,2	48	120
1926 13 005	5x2x1	16,3	105	265
1926 13 010	10x2x1	20,4	200	490
1926 13 020	20x2x1	26,3	393	900
1926 15 002	2x2x1,5	13,8	72	160
1926 15 005	5x2x1,5	20,3	158	350
1926 15 010	10x2x1,5	25,7	302	655
1926 15 020	20x2x1,5	33,6	590	1235

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1926 16 002	2x2x2,5	15,7	120	215
1926 16 005	5x2x2,5	22,7	264	500
1926 16 010	10x2x2,5	29,2	504	950
1926 16 020	20x2x2,5	38,1	984	1800