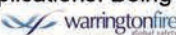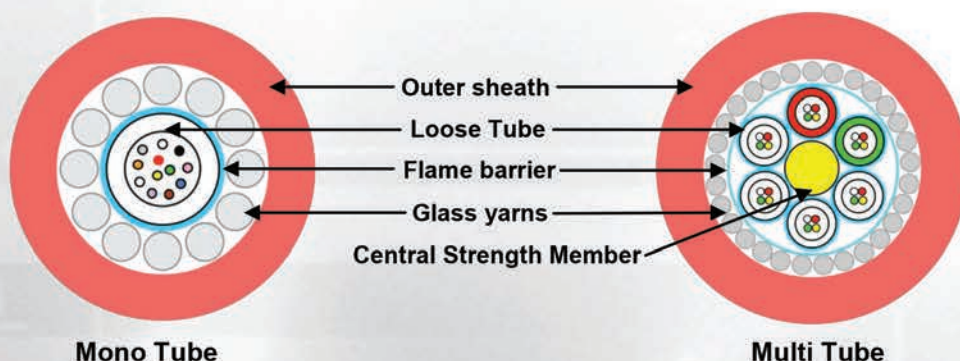# MSS fibre systems
Fibre Optic Product Supplier

MSS Fire Resistant Optical Cable
Product Details:

LUXFIRE™ cables are the outmost solution for fire resistant applications. Being fully compliant to IEC 60331-25, and verified by warringtonfire *global safety*, this optical cable family can withstand 90 minutes of fire with a maximum increase of attenuation of 0.5 dB/fibre. Typical applications include fire alarm systems, safety and surveillance networks, railways and tunnels. LUXFIRE™ cable structure features a fully dielectric single or multi tube *loose* solution, with glass yarns armouring and halogen free jacket. Capacity ranges from 2 to 72 fibres, SM/R, 50/125 or 62.5/125.

Outer sheath
Loose Tube
Flame barrier
Glass yarns
Central Strength Member

Mono Tube   **Multi Tube**

PLASTICAVI
ITALIANA S.P.A

Fire Performance:
- IEC 60331-25
- IEC 60332-1
- IEC 60332.3C
- IEC 1034-1/2
- IEC 745-1/2

Construction:

Fibre Count	Structure Type	Tubes		Fibres/Tube
		Total	Filler	
2-24	A	1	0	2-24
48	B	6	2	12
60	B	6	1	12
72	B	6	0	12

Construction Details:

Tube:	PBTP filled with jelly
Protection:	Flame barrier
Assembling:	Thermoplastic resin coated glassline + coloured tubes (SZ) stranded (B construction only)
Protection:	Glass yarns
Jacket:	Red LSZH flame retardant

Physical Characteristics (weights and dimensions):

Fibre Count	Nominal Diameter	Nominal Weight
2-12	8,00 mm	65 kg/km
12-24	9,00 mm	80 kg/km
48	12,50 mm	150 kg/km
60	12,50 mm	150 kg/km
72	12,50 mm	150 kg/km

Mechanical Tests:

	2-12 Fibres	12-24 Fibres	48-72 Fibres
Tensile performance [N]	1500	2000	3000
Crush [N/100mm]:	2000		
Impact energy [J]:	10		
Temperature cycling:	-20°C - +60°C		

Ordering Information:

Fibres	Single Mode	OM1	OM3
2	CAB-MT-02-SMFR		
6	CAB-MT-06-SMFR	CAB-MT-06-MMFR	CAB-MT-06-MM3FR
8	CAB-MT-08-SMFR		CAB-MT-08-MM3FR
12	CAB-MT-12-SMFR	CAB-MT-12-MMFR	
24		CAB-MT-24-MMFR	

LEGEND PERFORMANCE TECHNOLOGY