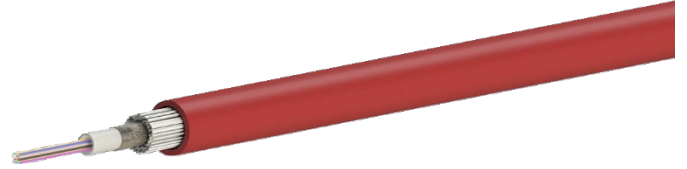


Fire Resistant Fibre Optic Cable



OSA Fire Rated Optical Cable series of Fire Resistant cable is ideal for installations requiring a cable that can withstand damage from fire or flame for a period of time. This cable allows for systems to remain operational for a limited time where traditional cables will not.



Perfect for critical systems, where time is required for system shutdown or data backup to take place, or for signaling & safety purposes.

KEY FEATURES

- Fire resistant cable offers protection in hazardous or fire prone areas for critical systems
- Non-metallic, all dielectric construction allows for cable installation in areas such as power substations with restrictions in place for metallic cable
- High performance components and construction
- Low smoke zero halogen UV stabilised outer jacket lowers corrosive gas emissions during a fire situation
- Complies with relevant IEC codes, standards & specifications for fire resistant & flame retardant properties
- Glass yarn offers a level of deterrence against non-burrowing rodents
- Wide operating temperature range of -20°C to +70°C
- 4 to 24 fibres*(subject to availability)

Application

- Suitable for indoor/outdoor confined spaces
- Fire prone areas
- Hazardous environments
- Critical systems and signaling applications
- Warning systems for mine sites



Fibre Performance

Fibre type	OM3 (G651)	SM (G652.D)	
Attenuation at 850nm (db/km)	<3.0	n/a	
Attenuation at 1300/1310nm (db/km)	<1.0	<0.40	
Attenuation at 1550nm (db/km)	n/a	<0.30	
Bandwidth at 850nm (MHz.km)	>1500	n/a	
Bandwidth at 1300nm (MHz.km)	>500	n/a	

Cable Construction

Outer jacket	Low Smoke Zero Halogen
Intermediate members	Glass Yarn
Fire protective wrapping	Mica Tape
Inner tube	Polyethelene
Glass fibres	250um Loose Tube in Thixotropic Gel

Technical Specifications

	90 minute specification	180 minute specification	
Tensile performance	2000 N	2500 N	IEC 60794-1-2-E1
Crush performance	2000 N / 100mm	2000 N / 100mm	IEC 60794-1-2-E3
Impact performance	10 J	20 J	IEC 60794-1-2-E4
Flame retardant	Complies to IEC specification	Complies to IEC specification	IEC 60332-1-2
Fire retardant	Complies to IEC specification	Complies to IEC specification	IEC 60332-3-24
Fire resistant	750°C for 90 minutes	950°C for 180 minutes ¹	IEC 60331-25
Halogen acid gas emission	0.3%	0.5%	IEC 60754-1/2
Acidity of gases during fire	pH 4.3, conductivity 10 µS/mm	pH 4.3, conductivity 10 µS/mm	IEC 60754-1/2
Smoke emission	60%	60%	IEC 61034-1/2

Cable Characteristics

Fibre Count	Nominal diameter (mm)	Nominal weight (kg/km)	Min. bend radius operation (cm)	Min. bend radius installation (cm)
90 minute specification				
4, 6, 12	7.5	60	7.5	11.25
24	8.0	70	8.0	12
180 minute specification				
4, 6, 12	7.5	60	7.5	11.25
24	8.5	70	8.5	12.75

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