

Fire Rated Optical Fibre Cable

Part No: GLT-RC Series

Description	Monotube constructed optical fibre cable with up to 12 fibres in a jelly filled loose tube, fire barrier tape wrapped, LSZH jacketed, 120 minute (2hour) fire rated to IEC60331-25
Applicable Standards	AS/CA S-008, IEC 60794-1-21, AS 1049, AS/NZS 11801, IEC 60331-25, IEC60332-1, IEC 60332-3C, AS/NZS 4507, IEC 60754-1 and 2, IEC 61034-2
Suitable Applications	For use in indoor optical fibre systems where circuit integrity is required in the event of a fire. May be used outdoors and in tunnels subject to protection from vermin, rodents, insects, vandals and harsh environmental conditions ¹

Images

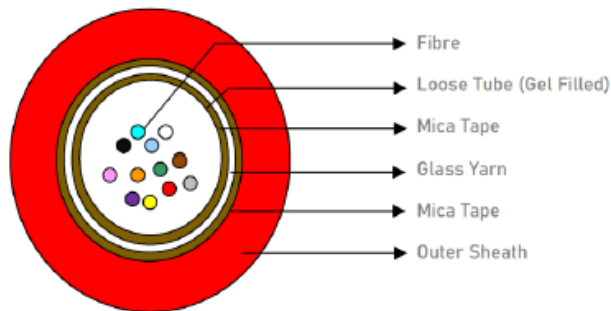


Image for Illustration purposes only



¹ No termite or rodent protection is offered in this cable, Materials used are UV stabilised but extended exposure to UV radiation is not recommended nor encouraged.

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Construction

Conductor	Material	PBT											
	OD	2.8 mm											
	Water blocking	Jelly											
Fibre colours (EIA/TIA 598)		1	2	3	4	5	6	7	8	9	10	11	12
		BL	OR	GN	BR	GY	WH	RD	BK	YW	VT	PK	AQ
Strength Member	Material	Glass Yarns with water swellable yarns											
	Application	Over PBT Tube											
Fire Barrier	Yes												
Outer Jacket	Materials	UV Stabilised LSZH											
	Colour	Refer to Supply Information table											
	Diameter	7.5 mm nominal											
Cable Weight	70 Kg/km												
Drum Lengths²	Standard	2 and 4 km Wooden Drums											
	Tolerance	± 5%											

Mechanical Properties

Property	Limit	Standard
Tensile Strength	2 KN	IEC 60754-1-2-E1
Crush Resistance	2500 N/100m	IEC 60794-1-2-E3
Impact Strength	10 N.m	IEC 60794-1-2-E4
Torsion	± 360°	IEC 60794-1-2-E7
Kink	10 x OD	IEC 60794-1-2-E10
Minimum Bend Radius	15 x Diameter under load	IEC 60794-1-2-E11
Water Penetration Test	1 metre water head 3 metre cable sample 24 hour duration No Water leaks	IEC 60794-1-2-F5B
Temperature Range	Storage	-30°C to +70°C
	Installation	-5°C to +50°C
	Operation	-30°C to +70°C

² Non Standard drum lengths subject to negotiation. MoQ's may apply for non=stocked items.

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Fire Flame and Performance

Circuit Integrity (Fire resistance)	Standard	IEC 60331-25
	Conditions	750°C for 120 mins (2hr)
Flame Performance	Single Cable	IEC 60332-1
	Bunched Cable	IEC 60332-3-24 (Part C)
Acid gas generation	IEC 60754-1 and 2 HCL content \leq 5mg/g (0.5%) pH \geq 4.3 Conductivity \leq 10 μ S/mm	
Light Transmittance	IEC 61034-2 \geq 60%	
AS/NZs 4507 Classification³	CI-2	

Supply Information

Product No	Fibre type	Total No. of Fibres	Jacket Colour
GLTSMIRC006RD	G652D	6	Red
GLTSMIRC0012RD	G652D	12	Red
GLTOM3RC006RD	OM3	6	Red
GLTOM3RC0012RD	OM3	12	Red
GLTOM4RC006RD	OM4	6	Red
GLTOM4RC0012RD	OM4	12	Red

- Madison reserves the right to make changes to the products described in this specification without prior notice
- All values subject to factory tolerances

³ AS/NZS 4507 refers to the now superseded AS/NZS 1660 series of standards for test methods and requirements. The classification listed above is based on meeting the requirements of the IEC standards that superseded AS/NZS 1660.