

Non-Metallic Flat FRP Armoured Loose Tube Cable

Engineered to withstand high tensile and crush loads, the Non-metallic Flat FRP Armoured Cable integrates up to 24 fibres in a gel-filled axial loose tube construction. Key to the high strength design is the use of 6 x Flat FRP strength elements providing enhanced tensile and crush performance characteristics.

Coupled with the Flat FRP Armour against rodent attack, the Nylon jacket provides an insect (termite) resistant layer, strategically positioned to ensure longevity. The cable is then sheathed with an outer UV stabilized Polyethylene compound.

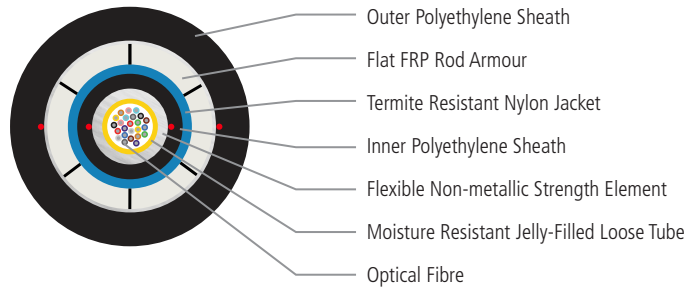
Features

- Axial Loose Tube
- Up to 24 fibres
- Robust design
- Termite & Rodent Resistant
- Increased mechanical performance over traditional stranded Loose Tube Cables
- Small Diameter
- Light Weight
- Made in Australia

Applications

- Long-Haul, Campus Backbone, Point-to-Point installations
- Duct or Direct Buried
- Directly exposed to the elements - UV stable
- SCADA

Cable Components



Optical Fibre Specifications

FIBRE DESIGNATOR**	FIBRE TYPE	MAXIMUM ATTENUATION (CABLED) dB/km			
		1310 NM	1550 NM	850 NM	1300 NM
1D	Single-mode G.652.D "LWP"	≤0.36	≤0.22	N/A	N/A
1E	Single-mode Premium G.652.D "LWP"	≤0.33	≤0.19	N/A	N/A
62	Multimode OM1 62.5 µm	N/A	N/A	≤3.0	≤1.0
53	Multimode OM3 50 µm	N/A	N/A	≤3.0	≤1.0
55	Multimode OM4 50 µm	N/A	N/A	≤3.0	≤1.0

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Mechanical Data - Termite & Rodent Resistant Cable (Non-Metallic Armoured)

PART NUMBER	FIBRE COUNT	TUBE DIAMETER	NOM. DIAMETER	NOM. WEIGHT	MAX. TENSILE LOAD	MIN. BEND RADIUS		CRUSH		IMPACT
		MM	MM	KG/KM	(KN)	INSTALLATION	OPERATION	(kN/100MM)		KG.M
					INSTALLATION			SHORT TERM (10 MIN)	LONG TERM (120 MIN)	
RLD1**FB002BK	2	2.3	10.5	95	6	20 x OD	10 x OD	4	3	1.5
RLD1**FB004BK	4									
RLD1**FB006BK	6									
RLD1**FB008BK	8									
RLD1**FB012BK	12									
RLD1**FB016BK	16									
RLD1**FB024BK	24									

** Represents fibre type in the Optical Fibre Specifications table on previous page.

Up to 24 fibres for single-mode.

Up to 12 fibres for multimode.

Supplied with BK = Black sheath as standard, the following colours are available upon request: BE = Blue, GY = Grey, YW = Yellow, WE = White.

Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
AS/CA	S008	Cable
IEC	60794	Cable
AS/NZS	11801-1	Cable
Standards Australia	AS 1049	Materials
IEC	60793	Fibre
ITU-T	G.652 / G.657.A1 / G.651.1	Fibre
TIA	598-D	Fibre

Temperature Specifications

TEMPERATURE RANGE	
Installation	-30°C to +60°C
Operation	-40°C to +70°C
Storage	-40°C to +70°C

Contact AFL for additional information or cable design assistance.