

## Armoured Distribution Series Fibre Optic Cable



Armoured distribution series cable is ideal for installations requiring an extremely rugged and reliable cable design where excellent mechanical and environmental protection are critical.

The bonded polyethylene double jacket construction with integrated corrugated steel tape armouring is perfectly suited for transition from indoor to outdoor confined spaces without the need for termination or cable transition.

The armouring provides protection of the fibres from vermin and other environmental hazards. The tight buffered fibres offer simpler handling and termination when compared with loose tube alternatives.

### Application

- Suitable for indoor/outdoor confined spaces
- Direct burial or installation into conduit
- Campus networks
- Energy & Industrial networks
- Vermin prone areas

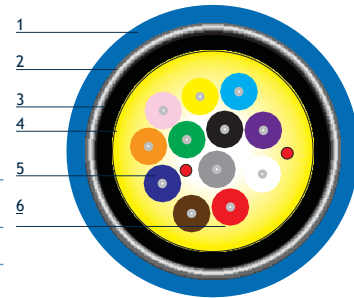
### Features

- Bonded double polyethylene sheath provides excellent protection
- Excellent mechanical and full rodent protection characteristics due to ruggedised steel tape wrapping
- Aramid yarn strength members provided extra tensile strength and protection for the fibres
- 900um buffer eliminates the need for costly and time consuming fanout kits or pigtail splices because connectors terminate directly to the fibre
- Cable materials are indoor/ outdoor – UV, water and fungus resistant
- Wide operating temperature range of -20°C to +70°C
- 2 to 12 fibres

## Technical Specifications

### Cable Construction

Component	Material	Colour
1	Polyethelene	MM: Blue SM: Yellow
2	Corrugated steel tape	Natural steel
3	Polyethelene	Black
4	Aramid yarn	Yellow
5	Fibre buffer	TIA598 Colours
6	Silica glass fibre	Natural



### Cable Characteristics

Core Count	2 - 8		12	
Nominal Diameter (mm)	11.4		13.4	
Nominal Weight (kg/km)	118		160	
	Installation	Operation	Installation	Operation
Max tensile load (N)	1400	450	2700	900
Minimum bend radius (cm)	17.1	11.4	20.1	13.4

### Fibre Performance

	OM1 Multimode		OM3 Multimode		OM4 Multimode		G652D Singlemode	
Wavelength (nm)	850	1300	850	1300	850	1300	1310	1550
Attenuation (dB/km)	<3.5	<1.5	<3.0	<1.0	<3.0	<1.0	<0.4 dB	<0.3 dB/km
Bandwidth (MHz km)	>200	>500	>1500	>500	>3500	>500	N/A	N/A

### Mechanical Testing

	Procedure	SM (1550nm)	MMF (1300nm)	Test Standard
Temperature cycle (°C)	20 to -20 to 70 to -20 to 70 to 201 cycle, 12 hours	-0.2*	-0.3*	(IEC 60794-1-2-F1)
Tensile attenuation (Δ dB)	Net weight x 1 - 1.5	-0.2*	-0.2*	(IEC 60794-1-2-E1)
Torsion resistance (Δ dB)	10 cycles (± 180°) 250 N, 2m	-0.2	-0.2*	(IEC 60794-1-2-E1)
Crush resistance (Δ dB)	600 N/100mm, 5 min	-0.2	-0.2	(IEC 60794-1-2-E3)
Impact resistance (Δ dB)	10J, 3 points, 1 impact	-0.2	-0.2	(IEC 60794-1-2-E4)
Repeated bending (Δ dB)	5 cycles, radius 15 x dia.	-0.2*	-0.2*	(IEC 60794-1-2-E6)