

Fibre Optic Cables

Fibre optic cables provide a high speed method of transmitting large amounts of data over much greater bandwidths than traditional copper cables. They are widely adopted for use in industrial and commercial applications where streaming live data is vital or when long distance applications make copper conductors impractical due to signal loss. Fibre is not affected by EMI (Electro Magnetic Interference) making it ideal for data transmission in electrically noisy environments.

The construction can vary depending on the application and environment. Options include singlemode or multimode transmission in a loose tube or tight buffered fibre design. These are available with a variety of sheath materials and mechanical armours.

Fibre Core Classification

Fibre size/ μm	Fibre grade	Fibre mode	Attenuation dB/km @ 1310nm		Attenuation dB/km @ 1550nm	
9/125	OS2	Singlemode	Loose tube	0.36	Loose tube	0.22
			Tight buffered	0.38	Tight buffered	0.28

Fibre size/ μm	Fibre grade	Fibre mode	Bandwidth MHz/km @ 850nm	Bandwidth MHz/km @ 1300nm
50/125	OM2	Multimode	500	500
50/125	OM3	Multimode	1500	500
50/125	OM4	Multimode	3500	500
62.5/125	OM1 (L)	Multimode	200	500
62.5/125	OM1 (M)	Multimode	300	800

Part No.	Core x μm	Grade	Sheath	Weight kg/km	O/D mm
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Internal - Tight buffered

 F902TIH	2 x 9/125	OS2	LSHF	14	4.2
 F904TIH	4 x 9/125	OS2	LSHF	21	5.6
 F908TIH	8 x 9/125	OS2	LSHF	30	6.1
 F912TIH	12 x 9/125	OS2	LSHF	38	7.0
 F5202TIH	2 x 50/125	OM2	LSHF	14	4.2
 F5204TIH	4 x 50/125	OM2	LSHF	21	5.6
 F5208TIH	8 x 50/125	OM2	LSHF	30	6.1
 F5212TIH	12 x 50/125	OM2	LSHF	38	7.0
 F6L02TIH	2 x 62.5/125	OM1 (L)	LSHF	14	4.2
 F6L04TIH	4 x 62.5/125	OM1 (L)	LSHF	21	5.6
 F6L08TIH	8 x 62.5/125	OM1 (L)	LSHF	30	6.1
 F6L12TIH	12 x 62.5/125	OM1 (L)	LSHF	38	7.0

 This cable is Low Smoke Halogen Free throughout

F5212LUH



Part No.	Core x μm	Grade	Sheath	Weight kg/km	O/D mm
Universal - Loose tube					
 F904LUH	4 x 9/125	OS2	LSHF	42	7.0
 F908LUH	8 x 9/125	OS2	LSHF	46	7.0
 F912LUH	12 x 9/125	OS2	LSHF	48	7.0
 F924LUH	24 x 9/125	OS2	LSHF	55	7.5
 F5204LUH	4 x 50/125	OM2	LSHF	42	7.0
 F5206LUH	6 x 50/125	OM2	LSHF	46	7.0
 F5212LUH	12 x 50/125	OM2	LSHF	48	7.0
 F5224LUH	24 x 50/125	OM2	LSHF	55	7.5
 F6L04LUH	4 x 62.5/125	OM1 (L)	LSHF	42	7.0
 F6L06LUH	6 x 62.5/125	OM1 (L)	LSHF	46	7.0
 F6L12LUH	12 x 62.5/125	OM1 (L)	LSHF	48	7.0
 F6L24LUH	24 x 62.5/125	OM1 (L)	LSHF	55	7.5

Part No.	Core x μm	Grade	Sheath	Weight kg/km	O/D mm
External - Loose tube					
F912LD	12 x 9/125	OS2	LDPE	38	7.0
F924LD	24 x 9/125	OS2	LDPE	43	7.5
F5212LD	12 x 50/125	OM2	LDPE	38	7.0
F5224LD	24 x 50/125	OM2	LDPE	43	7.5
F6L12LD	12 x 62.5/125	OM1 (L)	LDPE	38	7.0
F6L24LD	24 x 62.5/125	OM1 (L)	LDPE	43	7.5

Multiple loose tube versions are available up to 144 core, please call for a data sheet.

Armour options: For a mechanical armour please suffix the part number with:

CA = Corrugated Steel Tape (CST)

A = Galvanised Single Wire Armour (GSWA)

BA = Galvanised Steel Wire Braid (GSWB)

Multimode fibre grades OM1 (M), OM4 are available on request.

Sheath colours can vary, please specify at time of order if you have a preference.

Hydrocarbon resistant versions available on request.

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