

MiniFlex™

Pre-terminated Fiber Cable



Miniflex™ Pre-terminated Fiber Cable, made using Miniflex™ Fiber Cable with your choice of industry standard connector.

Miniflex™ Pre-terminated Fiber Cable has exceptionally low weight for the level of strength and protection it provides.



Applications

- FTTH/FTTX - Outdoor
- FTTH/FTTX - Indoor
- Data Infrastructure
- Broadband Networks
- Transport - Automotive

Advantages

- Market leading combination of size, crush resistance, flexibility and fiber density
- Multiple connector options
- Multi-fiber connectors
- Breakout products with pigtails and individual products
- Miniflex™ live hinge technology
- Grooving increases flexibility for a given strength
- Best combination of strength, size, weight & fiber density
- Very high crush resistance
- Very small diameter
- Uses industry standard fiber from a wide range of fiber suppliers.

Compatibility List

Miniflex™ Pre-terminated Fiber Cable is compatible with:

- All ducting and microduct in the market
- All types of fiber, both silica based or POF

* Specify if a particular pigtail length is required

MATERIAL APPLICATIONS

Material	Property	Best for...	Color
PBT	Hardest & toughest outdoor material, some UV resistance	All general applications	BLK, WHT
PA12	(Nylon) Hardest & toughest indoor material, European LSZH	Frequently accessed ODFs needing extra protection	WHT
MDPE	Standard cable jacket material	Aerial	BLK
HDPE	Harder & denser than MDPE	Direct bury	ORG
PVDF	Used for indoor & outdoor applications. Meets US fire ratings (OFNR)	Indoor use especially building risers	WHT
PP	Basic most cost effective grade	Protecting fiber in cabinets	ALL
PEMX	Specialized LSZH & riser material	Indoor use especially building risers	WHT, BLK

ISO9001 Production, REACH, ROHS, Certificate of Origin

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Enquiry Information: Code Builder

T N C A - 3 0 0 2 - P B T - W H T - P C S C - P C S C - O M 2

Product type Option Product code (please end column in table) Color code Cable near end Cable far end Fiber type

Product Type	Color Code	Cable - Near End	Cable - Far End	Fiber Type
TNCA = MiniFlex™ Fiber Cable	(check availability)	APSC = Angle polished SC	APSC = Angle polished SC	OS2 OM3
Option	AQU = Aqua BLU = Blue	PCSC = Plain polished SC	PCSC = Plain polished SC	OM1 OM4
A = Aramid	WHT = White YEL = Yellow	APLC = Angle polished LC	APLC = Angle polished LC	OM2
W = Water Blocking Yarn	BLK = Black GRN = Green	PCLC = Plain polished LC	PCLC = Plain polished LC	
Unique Product Code	CLR = Clear ORG = Orange	APFC = Angle polished FC	APFC = Angle polished FC	
e.g. 3.0-02-PBT	RED = Red	PCFC = Plain polished FC	PCFC = Plain polished FC	

(end column)

Miniflex™ Fiber Cable Product List

Material	Fiber Count	Fiber Type	OD (mm)	Crush (n)	Tension (n)	Nominal Weight (kg/km)	Install Temp (Celsius)	Product Code
PBT	1	OS2, OM1, OM2, OM3, OM4	3.0	950	100	8.1	-10 to +60	3.0-01-PBT
	2	OS2, OM1, OM2, OM3, OM4	3.0	950	100	8.1	-10 to +60	3.0-02-PBT
	4	OS2, OM1, OM2, OM3, OM4	3.0	950	100	8.1	-10 to +60	3.0-04-PBT
	8	OS2, OM1, OM2, OM3, OM4	3.0	950	100	8.1	-10 to +60	3.0-08-PBT
	12	OS2, OM1, OM2, OM3, OM4	3.0	950	100	8.1	-10 to +60	3.0-12-PBT
	18	OS2, OM1, OM2, OM3, OM4	3.0	950	100	8.1	-10 to +60	3.0-18-PBT
	24	OS2, OM1, OM2, OM3, OM4	3.0	950	100	8.1	-10 to +60	3.0-24-PBT
PBT	1	OS2, OM1, OM2, OM3, OM4	4.0	650	100	11	-10 to +60	4.0-01-PBT
	2	OS2, OM1, OM2, OM3, OM4	4.0	650	100	11	-10 to +60	4.0-02-PBT
	4	OS2, OM1, OM2, OM3, OM4	4.0	650	100	11	-10 to +60	4.0-04-PBT
	8	OS2, OM1, OM2, OM3, OM4	4.0	650	100	11	-10 to +60	4.0-08-PBT
	12	OS2, OM1, OM2, OM3, OM4	4.0	650	100	11	-10 to +60	4.0-12-PBT
	18	OS2, OM1, OM2, OM3, OM4	4.0	650	100	11	-10 to +60	4.0-18-PBT
	24	OS2, OM1, OM2, OM3, OM4	4.0	650	100	11	-10 to +60	4.0-24-PBT
PBT	1	OS2, OM1, OM2, OM3, OM4	5.0	1400	100	13.6	-10 to +60	5.0-01-PBT
	2	OS2, OM1, OM2, OM3, OM4	5.0	1400	100	13.6	-10 to +60	5.0-02-PBT
	4	OS2, OM1, OM2, OM3, OM4	5.0	1400	100	13.6	-10 to +60	5.0-04-PBT
	8	OS2, OM1, OM2, OM3, OM4	5.0	1400	100	13.6	-10 to +60	5.0-08-PBT
	12	OS2, OM1, OM2, OM3, OM4	5.0	1400	100	13.6	-10 to +60	5.0-12-PBT
	18	OS2, OM1, OM2, OM3, OM4	5.0	1400	100	13.6	-10 to +60	5.0-18-PBT
	24	OS2, OM1, OM2, OM3, OM4	5.0	1400	100	13.6	-10 to +60	5.0-24-PBT

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Material	Fiber Count	Fiber Type	OD (mm)	Crush (n)	Tension (n)	Nominal Weight (kg/km)	Install Temp (Celsius)	Product Code
PA12	1	OS2, OM1, OM2, OM3, OM4	3.0	650	100	7.5	-20 to +60	3.0-01-PA12
	2	OS2, OM1, OM2, OM3, OM4	3.0	650	100	7.5	-20 to +60	3.0-02-PA12
	4	OS2, OM1, OM2, OM3, OM4	3.0	650	100	7.5	-20 to +60	3.0-04-PA12
	8	OS2, OM1, OM2, OM3, OM4	3.0	650	100	7.5	-20 to +60	3.0-08-PA12
	12	OS2, OM1, OM2, OM3, OM4	3.0	650	100	7.5	-20 to +60	3.0-12-PA12
	18	OS2, OM1, OM2, OM3, OM4	3.0	650	100	7.5	-20 to +60	3.0-18-PA12
	24	OS2, OM1, OM2, OM3, OM4	3.0	650	100	7.5	-20 to +60	3.0-24-PA12
PA12	1	OS2, OM1, OM2, OM3, OM4	4.0	550	100	7.7	-20 to +60	4.0-01-PA12
	2	OS2, OM1, OM2, OM3, OM4	4.0	550	100	7.7	-20 to +60	4.0-02-PA12
	4	OS2, OM1, OM2, OM3, OM4	4.0	550	100	7.7	-20 to +60	4.0-04-PA12
	8	OS2, OM1, OM2, OM3, OM4	4.0	550	100	7.7	-20 to +60	4.0-08-PA12
	12	OS2, OM1, OM2, OM3, OM4	4.0	550	100	7.7	-20 to +60	4.0-12-PA12
	18	OS2, OM1, OM2, OM3, OM4	4.0	550	100	7.7	-20 to +60	4.0-18-PA12
	24	OS2, OM1, OM2, OM3, OM4	4.0	550	100	7.7	-20 to +60	4.0-24-PA12
PA12	1	OS2, OM1, OM2, OM3, OM4	5.0	1000	100	11	-20 to +60	5.0-01-PA12
	2	OS2, OM1, OM2, OM3, OM4	5.0	1000	100	11	-20 to +60	5.0-02-PA12
	4	OS2, OM1, OM2, OM3, OM4	5.0	1000	100	11	-20 to +60	5.0-04-PA12
	8	OS2, OM1, OM2, OM3, OM4	5.0	1000	100	11	-20 to +60	5.0-08-PA12
	12	OS2, OM1, OM2, OM3, OM4	5.0	1000	100	11	-20 to +60	5.0-12-PA12
	18	OS2, OM1, OM2, OM3, OM4	5.0	1000	100	11	-20 to +60	5.0-18-PA12
	24	OS2, OM1, OM2, OM3, OM4	5.0	1000	100	11	-20 to +60	5.0-24-PA12
PVDF	1	OS2, OM1, OM2, OM3, OM4	4.0	750	100	11.1	-20 to +60	4.0-01-PVDF
	2	OS2, OM1, OM2, OM3, OM4	4.0	750	100	11.1	-20 to +60	4.0-02-PVDF
	4	OS2, OM1, OM2, OM3, OM4	4.0	750	100	11.1	-20 to +60	4.0-04-PVDF
	8	OS2, OM1, OM2, OM3, OM4	4.0	750	100	11.1	-20 to +60	4.0-08-PVDF
	12	OS2, OM1, OM2, OM3, OM4	4.0	750	100	11.1	-20 to +60	4.0-12-PVDF
	18	OS2, OM1, OM2, OM3, OM4	4.0	750	100	11.1	-20 to +60	4.0-18-PVDF
	24	OS2, OM1, OM2, OM3, OM4	4.0	750	100	11.1	-20 to +60	4.0-24-PVDF
PP	1	OS2, OM1, OM2, OM3, OM4	3.0	500	80	4.5	-20 to +60	3.0-01-PP
	2	OS2, OM1, OM2, OM3, OM4	3.0	500	80	4.5	-20 to +60	3.0-02-PP
	4	OS2, OM1, OM2, OM3, OM4	3.0	500	80	4.5	-20 to +60	3.0-04-PP
	8	OS2, OM1, OM2, OM3, OM4	3.0	500	80	4.5	-20 to +60	3.0-08-PP
	12	OS2, OM1, OM2, OM3, OM4	3.0	500	80	4.5	-20 to +60	3.0-12-PP
	18	OS2, OM1, OM2, OM3, OM4	3.0	500	80	4.5	-20 to +60	3.0-18-PP
	24	OS2, OM1, OM2, OM3, OM4	3.0	500	80	4.5	-20 to +60	3.0-24-PP

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PP	1	OS2, OM1, OM2, OM3, OM4	4.0	550	100	6.5	-20 to +60	4.0-01-PP
	2	OS2, OM1, OM2, OM3, OM4	4.0	550	100	6.5	-20 to +60	4.0-02-PP
	4	OS2, OM1, OM2, OM3, OM4	4.0	550	100	6.5	-20 to +60	4.0-04-PP
	8	OS2, OM1, OM2, OM3, OM4	4.0	550	100	6.5	-20 to +60	4.0-08-PP
	12	OS2, OM1, OM2, OM3, OM4	4.0	550	100	6.5	-20 to +60	4.0-12-PP
	18	OS2, OM1, OM2, OM3, OM4	4.0	550	100	6.5	-20 to +60	4.0-18-PP
	24	OS2, OM1, OM2, OM3, OM4	4.0	550	100	6.5	-20 to +60	4.0-24-PP
PP	1	OS2, OM1, OM2, OM3, OM4	5.0	800	100	10	-20 to +60	5.0-01-PP
	2	OS2, OM1, OM2, OM3, OM4	5.0	800	100	10	-20 to +60	5.0-02-PP
	4	OS2, OM1, OM2, OM3, OM4	5.0	800	100	10	-20 to +60	5.0-04-PP
	8	OS2, OM1, OM2, OM3, OM4	5.0	800	100	10	-20 to +60	5.0-08-PP
	12	OS2, OM1, OM2, OM3, OM4	5.0	800	100	10	-20 to +60	5.0-12-PP
	18	OS2, OM1, OM2, OM3, OM4	5.0	800	100	10	-20 to +60	5.0-18-PP
	24	OS2, OM1, OM2, OM3, OM4	5.0	800	100	10	-20 to +60	5.0-24-PP

Transmission Performance Specifications

Singlemode Fiber

For Singlemode (OS2) G652D and G657 we only use tier 1 sourced fiber.
900 micron available on certain products - check availability

Multimode Fiber

Core diameter	50 micron	Buffer / acrylate diameter	250 micron		
Cladding diameter	125 micron	Maximum Attenuation at 850 / 1300 nm	< 3.5 / 1.0 dB/km		
Fiber Type	WaveLength (nm)	Minimum Overfilled Launch Bandwidth (MHz*km)	Minimum Effective Modal Bandwidth (MHz*km)	Serial 1 Gigabit Ethernet Distance (m)	Serial 10 Gigabit Ethernet Distance (m)
OM1	850/1300	200/500	220/ -	300/550	33/ -
OM2	850/1300	700/500	950/ -	750/600	150/ -
OM3	850/1300	1500/500	2000/ -	1000/600	300/ -
OM4	850/1300	3500/500	4700/ -	1000/600	550/ -
Operation Temp. Range		-40°C to +70°C (-40°F to +158°F)			

Options: Aramid can be added to improve tensile characteristics

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Contact

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