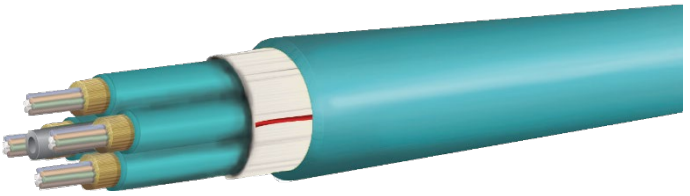
Multifibre Microcore Cable



With the ever increasing demand for higher density networks in telecommunications and enterprise networks, OSA microcore cable was developed to ensure maximum fibre density for your optical network. With variants including single jacket, ruggedised double jacket & high fibre sub-group microcore, our cable is ideal for indoor installations requiring a flexible, lightweight and reliable cable design where high fibre counts and small size is critical.

The high fibre counts and low cable diameter make micro cable the preferred cable for most enterprise level networks including MTP® and MPO and other pre-terminated networks. The compact construction limits cable congestion in populous networks

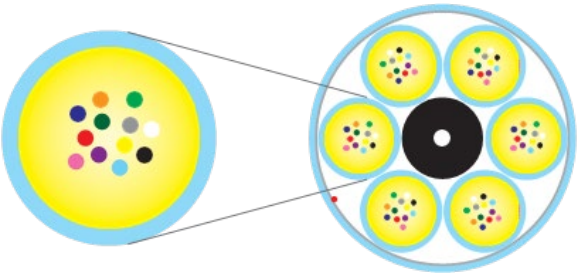
Available in a variety of fibre counts in single jacket, double jacket & sub-grouped construction.

KEY FEATURES

- Compact construction and high fibre count suit populous networks
- High strength to weight ratio allows for easy handling and long term installation reliability
- Smaller and lighter than distribution style cable constructions
- Low smoke zero halogen emitting jacket - perfectly suited to data centre installations
- Wide operating temperature range of -20°C to +70°C
- Perfectly suited to MTP® backbone leads in cross connect networks
- Flexible cable construction allows for easy handling and management in enclosures
- Singlemode and multimode fibre variants available
- 12 to 144 fibre constructions

Application

- Data centre and enterprise networks
- Storage area networks - fibre channel
- Local area network backbone links
- Highly populated telecommunications exchanges



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Sub-group Microcore Typical Construction

Cable Characteristics

Common Specifications	
Temperature range	
Operating temperature (°C)	-20 ~ +70
Storage temperature (°C)	-20 ~ +70
Installation temperature (°C)	-10 ~ +60

Single jacket typ.

Double jacket typ.

Fibre Specifications

Fibre Type	Singlemode		OM3 Multimode		OM4 Multimode	
Wavelength (nm)	1310	1550	850	1300	850	1300
Attenuation (dB/km)	<0.4	<0.3	<3.5	<1.5	<3.5	<1.5
Bandwidth (MHz km)	N/A	N/A	1500	500	3500	500
Core diameter (um)	9.2 ±0.5 (8.6±0.5 G657)		50.0 ±2.5		50.0 ±2.5	
Cladding diameter (um)	125 ±1.0		125 ±1.0		125 ±1.0	

Single Jacket Microcore Cable Specifications

Fibre count	Nominal diameter (mm)	Nominal weight (kg/ km)	Installation tensile load (N)	Operation tensile load (N)	Installation minimum bend radius (cm)	Operation minimum bend radius (cm)	Installa-tion crush resistance (N/cm)	Operation crush resistance (N/cm)	OM3 Aqua	OM4 Aqua	OM4 Violet	G652.D SM	G657.A1 SM	G657.A2 SM
12	3.0	8	150	80	6.0	3.0(1.0)	500	150	Y	Y	y	y		Y
24	3.0	8	150	80	6.0	3.0(1.0)	500	150	Y	Y	y	y		Y

Double Jacket Microcore Cable Specifications

Fibre count	Nominal diameter (mm)	Nominal weight (kg/ km)	Installation tensile load (N)	Operation tensile load (N)	Minimum bend radius Installation (cm)	Minimum bend radius long term (cm)	Installa-tion crush resistance (N/cm)	Operation crush resistance (N/cm)	OM3 Aqua	OM4 Aqua	OM4 Violet	G652.D SM	G657.A1 SM	G657.A2 SM
12	4.5	22	400	150	9.0	4.5	1000	300					Y	Y
12	4.8	24	400	150	9.6	4.8	1000	300		Y		Y		
12	6.0	32	600	200	12.0	6.0	1000	300	Y	Y	Y	Y		
24	4.5	32	400	150	9.0	4.5	1000	300			Y			Y
24	6.0	32	600	200	12.0	6.0	1000	300				Y		

Sub-group Microcore Cable Specifications (3mm sub-cables)

Fibre count	Nominal diameter (mm)	Nominal weight (kg/ km)	Installation tensile load (N)	Operation tensile load (N)	Minimum bend radius Installation (cm)	Minimum bend radius long term (cm)	Installa-tion crush resistance (N/cm)	Operation crush resistance (N/cm)	OM3 Aqua	OM4 Aqua	OM4 Violet	G652.D SM	G657.A1 SM	G657.A2 SM
48	9.0	79	600	200	18.0	9.0	1000	300			Y			Y
72	11.2	126	1000	300	22.4	11.2	1000	300				Y		
96	13.5	178	1000	300	27.0	13.5	1000	300				Y		
144	17.5	285	1000	300	35.0	17.5	1000	300			Y	Y		

Compact Sub-group Microcore Cable (2mm sub-cables)

Fibre count	Nominal diameter (mm)	Nominal weight (kg/ km)	Installation tensile load (N)	Operation tensile load (N)	Minimum bend radius Installation (cm)	Minimum bend radius long term (cm)	Installa-tion crush resistance (N/cm)	Operation crush resistance (N/cm)	OM3 Aqua	OM4 Aqua	OM4 Violet	G652.D SM	G657.A1 SM	G657.A2 SM
144	10.5	90	1000	300	21.0	10.5	1000	300			Y			Y

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