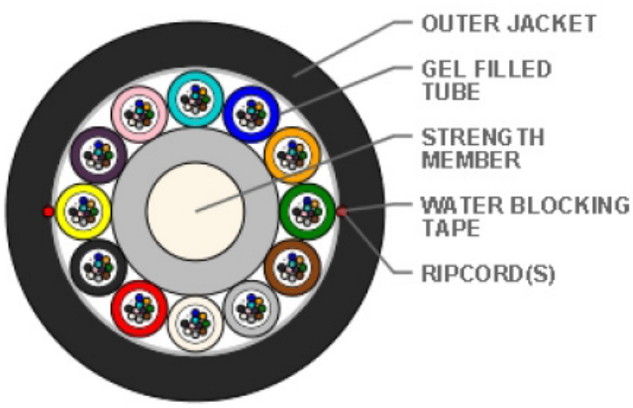
Fibre Optic Cabling

Connectix MLT 288-Fibre (24x12) External PE Singlemode G.657.A1

Connectix Multitube Single Jacket Fibre Optic Cables are suitable for duct applications. This cable is a stranded loose tube cable with optical fibres placed inside robust buffer tubes stranded around a fibre reinforced plastic (FRP) central strength member. In addition to optical fibres, the buffer tubes contain water blocking gel and the cable core is surrounded with water-swellable tape to prevent water ingress in the interstices of cable core.



Features & Benefits

- Multitube design with ripcords for easy and quick mid span access
- Easily removable rugged thermoplastic jacket
- Waterblocking technology for gel free core helps in quicker end preparation
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant
- UV protected

Physical Characteristics	
Fibre Count	288
Single Mode Optical Fibre	ITU.T - G.657 A1
Maximum Cabled Fibre Attenuation dB/Km	1310nm: 0.35; 1550nm: 0.23,
Link Design PMD	</=0.1 ps/√km
Fibre Per Tube	12
Fibre Colour Sequence	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua
Tube Size (mm)	2
Central Strength Member	FRP (Fibre Reinforced Plastic)
No of Tubes in Layer 1	9
Tube Colour Sequence	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua, Blue#, Orange#, Green#
Outer Sheath Material	UV Proof Black HDPE
Nominal Sheath Thickness (mm)	1.6
No of Ripcords Below Outer Sheath	2
Nominal Cable Dimensions (mm)	16± 0.5
Nominal Cable Weight (kg/km)	178±10%

Note : # - denotes single black stripe marking via inkjet or co-extrusion, white stripe marking for black loose tube.

Connectix Cabling Systems

T: 01376 346600 **E:** sales@connectix.co.uk **www.connectixcablingsystems.com**

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Mechanical & Environmental Characteristics		
Cable Characteristics	**Testing Standards**	**Cable Performance**
Tensile Strength (N)	IEC-60794-1-21-E1	3000
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	2000
Impact Strength (Nm)	IEC-60794-1-21-E4	5
Torsion	IEC-60794-1-21-E7	±180°
Min. Bend Radius (during installation)	IEC-60794-1-21-E11	20D
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	15D
Water Penetration Test	IEC-60794-1-22-F5	1m waterhead, 3m samples, 24h
Drip Test	IEC-60794-1-21-E14	30cm, 70°C, 24h
Temperature Performance	IEC-60794-1-21-F1	Max. change in attenuation shall be </=0.15dB/km
Installation		-10°C to + 70°C
Operation		-40°C to + 70°C
Storage		-40°C to + 70°C

Note: All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be </= 0.05 dB/km for Single Mode fibre and </= 0.3 dB/km for Multimode fibre.

Cable Performance Standards

Cable complies to the following standards IEC 60793,IEC 60794, Telecordia GR-20, ITU-T, RoHS, REACH.

Packing and Lengths

Drum Type : Wooden Drums
Length Multiple (km) : 4 ± 5%
Order Tolerance : ± 5%
Short Lengths : Max 5%, Customer Approval

Printing Details	
Cable Printing details	CONNECTIX SM 288F G657A1 DUCT LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER MARKING
The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supercedes the earlier markings.	

Ordering Information	
Product Description	Part Number
Connectix MLT 288-Fibre (24x12) External PE Singlemode G.657.A1	002-043-043-288

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