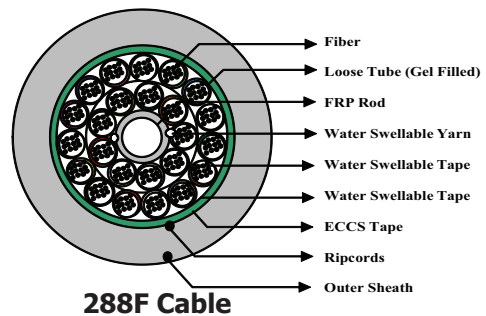
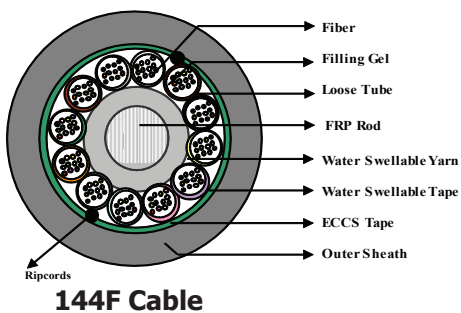
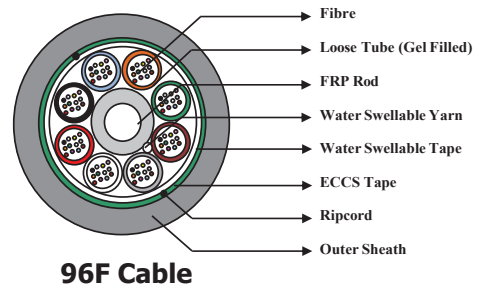
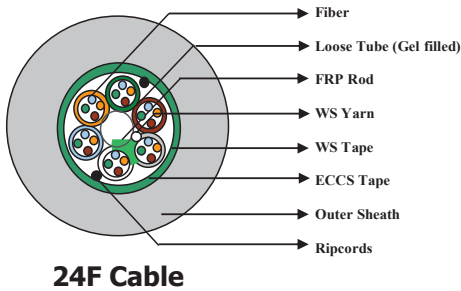
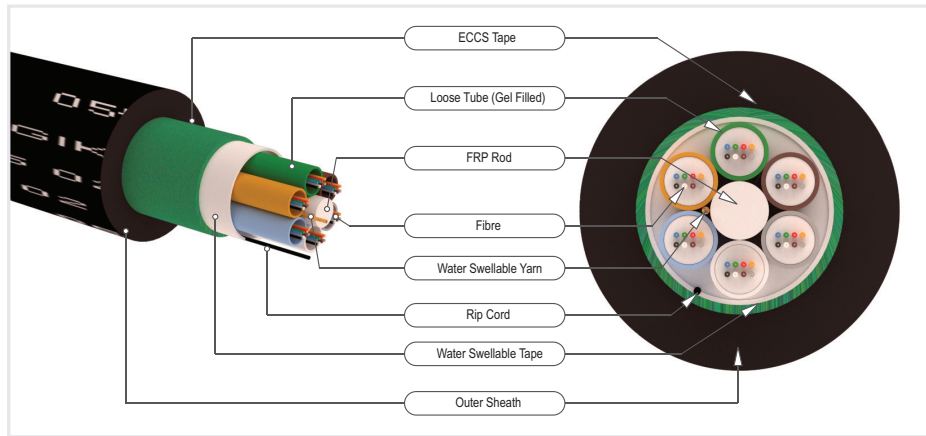


Single Mode OS2 Multitube Armoured Fiber Optic Cable –24F, 48F, 96F, 144F, 288F Cables

Techlogiks armoured loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The rugged loose tube design offers reliable transmission performance over a broad temperature range. Optical Fibers and water-blocking elements are placed inside buffer tubes. The core is constructed by stranding the buffer tubes around a central member. The core is wrapped with flexible strength members covered with a polyester tape then encased with a black inner jacket. An ECCS armoured is applied and a black outer jacket completes the cable construction. Rip cords are included under the inner jacket and armoured for ease of entry.



Standards Compliance :

Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Applications :

Direct bury and underground duct, Trunk, distribution and feeder cable, Local Loop, Metro, Long-haul and broadband network.

Advantages:

High Fiber density, Multiple network applications, Reduces cable prep and installation time, Reduces the number of tools required, Improves compressive strength and rodent protection.

Cable Construction Details															
Parameter	Dimensions	Type, Color													
288F															
Number of Fiber per tube	12	Color	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yi	Vi	Pi	Ag	
Number of Loose Tubes	9 (Layer I)	Color	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yi				
	15 (Layer II)	Color	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yi	Vi	Pi	Ag	
144F															
Number of Fiber per tube	12	Color	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yi	Vi	Pi	Ag	
Number of Loose Tubes	12	Color	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yi	Vi	Pi	Ag	
96F															
Number of Fiber per tube	12	Color	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yi	Vi	Pi	Ag	
Number of Loose Tubes	8	Color	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk					
48F															
Number of Fiber per tube	8	Color	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk					
Number of Loose Tubes	6	Color	Bl	Or	Gr	Br	Sl	Wh							
24F															
Number of Fiber per tube	4	Color	Bl	Or	Gr	Br									
Number of Loose Tubes	6	Color	Bl	Or	Gr	Br	Sl	Wh							
Moisture Barrier	---	Water Swellable Yarn & Water Swellable Tapes													
	288F	144F	96F	48F	24F										
Loose Tube ID/OD-PBT	1.6/2.3 ± 0.1 mm	1.6/2.3 ± 0.1 mm	1.6/2.2 ± 0.1 mm	1.5/2.2 ± 0.1 mm	1.2/1.9 ± 0.1 mm										
Central Strength Member-FRP Rod	3.5 ± 0.05 mm	3.5 ± 0.05 mm	2.5 ± 0.1 mm	2.3 ± 0.1 mm	2.0 ± 0.1 mm										
Corrugated Steel Armoring - ECCS Tape	0.150 mm	0.150 mm	0.150 mm	0.150 mm	0.150 mm										
Outer Sheath-LSOH/HDPE-Black	1.5 mm (Nom)	1.5 mm (Nom)	1.5 mm (Nom)	1.5 mm (Nom)	1.5 mm (Nom)										
Number of Ripcords - Polyester	2	2	1	1	2										
Overall Cable Diameter	18.0 ± 1 mm	16.0 ± 0.5 mm	12.5 ± 0.5 mm	12.0 ± 0.5 mm	11.0 ± 0.5 mm										
Cable Weight	300 ± 30 kg/km	260 ± 30 kg/km	155 ± 20 kg/km	135 ± 20 kg/km	115 ± 15 kg/km										

Cable Mechanical Characteristics					
Tensile Cable	288F	144F	96F	48F	24F
Tensile Strength	4000 N	4000 N	2670 N	2000 N	1500 N
Crush Resistance	2000 N	2000 N	2000 N	2000 N	2000 N
Impact Strength	20 N.m	25 N.m	25 N.m	25 N.m	25 N.m
Torsion	± 180 °	± 180 °	± 180 °	± 180 °	± 180 °
Minimum Bend Radius	20 x D	20 X D	20 X D	20 X D	20 X D

Optical Fibre Characteristics		
Fibre Type	G.652D (OS2)	
Attenuation	at 1310 nm	≤ 0.36 dB/km
	at 1550 nm	≤ 0.23 dB/km
Chromatic Dispersion	1285 - 1330 nm	≤ 3.5 ps/nm.km
	1550 nm	≤ 18 ps/nm.km
Zero Dispersion Wavelength		1300 - 1324 nm
Zero Dispersion Slope		≤ 0.092 ps/nm ² .km
Polarisation Mode Dispersion		≤ 0.2 ps/√km
Cut-off Wavelength	λ _{cc}	≤ 1260 nm
Mode Field Diameter	at 1310 nm	9.3 ± 0.5 μm
Core Cladding Concentricity Error		≤ 0.8 μm
Cladding Diameter		125 ± 1 μm
Cladding Non-circularity		≤ 1 %
Coating Diameter	(Uncolored)	245 ± 10 μm

Temperature Performance	
Installation	-20 °C to + 70 °C
Operation	-20 °C to + 70 °C
Storage	-20 °C to + 70 °C

ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
TL-24F-09-AR	24 Fiber SM OS2 Corrugated Steel Armoured Jelly Filled Loose Tube FOC LSZH
TL-48F-09-AR	48 Fiber SM OS2 Corrugated Steel Armoured Jelly Filled Loose Tube FOC LSZH
TL-96F-09-AR	96 Fiber SM OS2 Corrugated Steel Armoured Jelly Filled Loose Tube FOC LSZH
TL-144F-09-AR	144 Fiber SM OS2 Corrugated Steel Armoured Jelly Filled Loose Tube FOC LSZH
TL-288F-09-AR	288 Fiber SM OS2 Corrugated Steel Armoured Jelly Filled Loose Tube FOC LSZH
TL-24F-09-AR-PE	24 Fiber SM OS2 Corrugated Steel Armoured Jelly Filled Loose Tube FOC HDPE
TL-48F-09-AR-PE	48 Fiber SM OS2 Corrugated Steel Armoured Jelly Filled Loose Tube FOC HDPE
TL-96F-09-AR-PE	96 Fiber SM OS2 Corrugated Steel Armoured Jelly Filled Loose Tube FOC HDPE
TL-144F-09-AR-PE	144 Fiber SM OS2 Corrugated Steel Armoured Jelly Filled Loose Tube FOC HDPE
TL-288F-09-AR-PE	288 Fiber SM OS2 Corrugated Steel Armoured Jelly Filled Loose Tube FOC HDPE

ARMoured FIBER CABLE