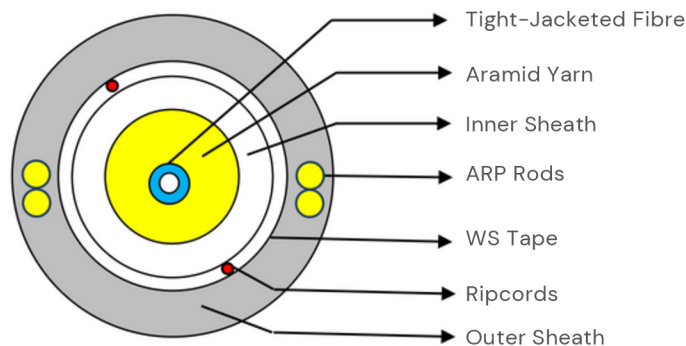


1F Tight Buffer Double Jacket Pre-terminated Drop Cable

0001-S3-01TB9-000-xx-xx-xx-xM

The 1F Pre-terminated Drop Cable Assembly is a factory-terminated solution for last-mile FTTP connections. It provides fast, reliable, and cost-efficient links to SDUs and MDUs, reducing the need for field splicing. With a round cable design that avoids preferential bending, the cable incorporates tight-buffered fibre, aramid yarn strength members, water-swellable tape, embedded ARP rods, and dual sheath protection (LSZH inner / HDPE outer) for durability in both indoor and outdoor environments. Available with LC, SC, or Opti-Tap connectors using zirconia ceramic ferrules and IEC Grade B compliance, the assembly delivers low insertion loss (≤ 0.3 dB) and high return loss (≥ 60 dB) for high-performance FTTP networks.



**Representative diagram, not to scale*

Key Features

- Faster and lower-cost installs with no field splicing
- IEC Grade B compliant optical performance
- Robust build – aramid/ARP rods with LSZH + HDPE sheath for strength and UV resistance
- Moisture resistant – water-swellable tape for long-term protection
- Connector options – LC, SC, Opti-Tap compatible

Applications and Benefits

- FTTP last-mile drops to SDUs and small MDUs
- Aerial short spans and duct installations
- Indoor entry via basements, risers, and equipment rooms
- Service activation points for testing and quick connections
- Rapid deployment builds requiring pre-terminated performance

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Cable Construction

Fibre Count	Cable Diameter	Cable Weight
1	5.1 ± 0.3 mm	23.0 kg/km (Nominal)
Tight Buffer – LSZH	900 ± 50 µm	
Peripheral Strength Member	Aramid Yarns	
Inner Sheath	LSZH – White	
Inner Sheath Diameter	2.7 ± 0.2 mm	
Moisture Barrier	Water Swellable Tape	
Embedded Strength Member	2/4 No's – ARP Coated	
Outer Sheath	HDPE – Black – UV	
Ripcords	2 Nos	

Cable Performance

Breaking Load	<2000 N	IEC-60794-1-21-E1
Tensile Strength	For the inner Subunit: 100N at 0.6% FS For the cable: 500N	
Crush Resistance	1000 N/100 mm	IEC-60794-1-21-E3
Minimum Bend Radius	20 x D	IEC-60794-1-21-E11
Environmental Performance	Installation – 20 °C to + 60 °C Operation – 20 °C to + 60°C Storage. – 20 °C to + 60 °C	IEC-60794-1-22-F1
CPR Classification (only for inner sheath)	B2ca s1a d0 a1	

Colour Coding – Fibre and Loose Tubes

Fibre Colour	Nt	Tight Buffer	Bl
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Fibre Characteristics

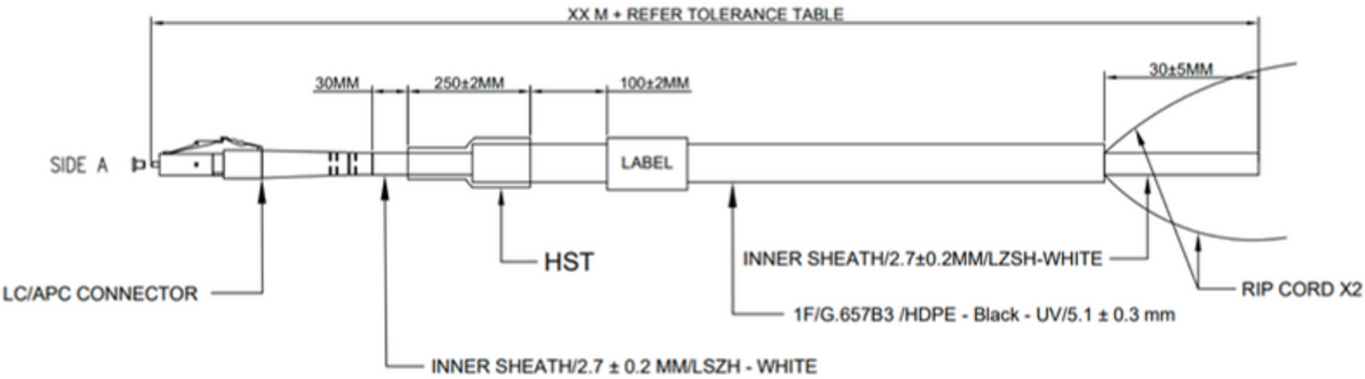
Fibre Type	ITU-T G.657.A2	
Attenuation	1310 nm	≤ 0.40 dB/km
	1550 nm	≤ 0.30 dB/km
Chromatic Dispersion	1285–1330 nm	≤ 3.5 ps/nm.km
	1550 nm	≤ 18 ps/nm.km
	1625 nm	≤ 22 ps/nm.km
Zero Dispersion Slope	≤ 0.092 ps/nm ² .km	
Zero Dispersion Wavelength	1300 – 1324 nm	
Polarisation Mode Dispersion	≤ 0.1 ps/√km	
Cable cut off wavelength λ _{cc}	≤ 1260 nm	
MFD	1310 nm	8.6 ± 0.4 μm
	1550 nm	9.6 ± 0.5 μm
Core–Cladding Concentricity Error	≤ 0.5 μm	
Cladding Diameter	125 ± 0.7 μm	
Cladding Non Circularity	≤ 0.8 %	
Secondary Coating Diameter	242 ± 5 μm (Uncoloured)	

Connector Specifications

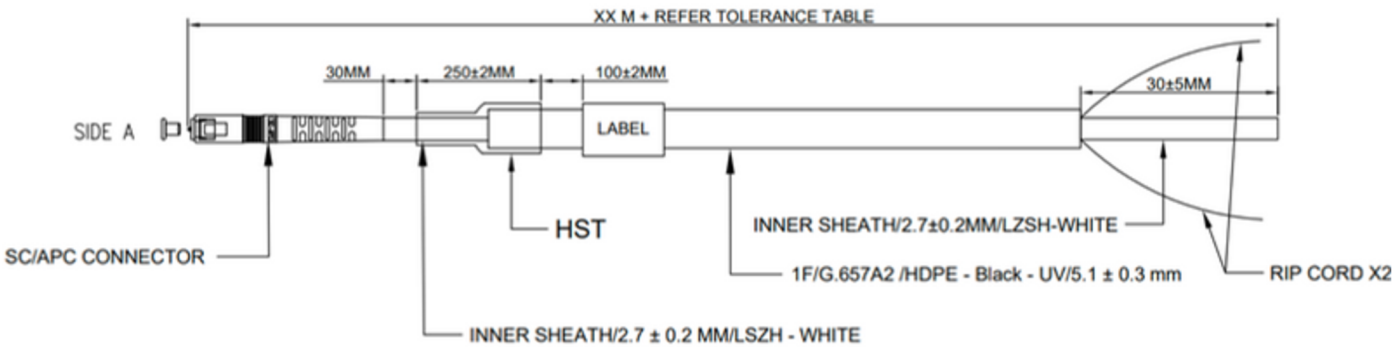
Optical Performance	Value
Insertion Loss (Max)	≤ 0.30 dB
Return Loss (Min)	≥ 60 dB
Type of ferrule	Zirconia Ceramic (Conical Zirconia Ceramic)

Assembly Drawings

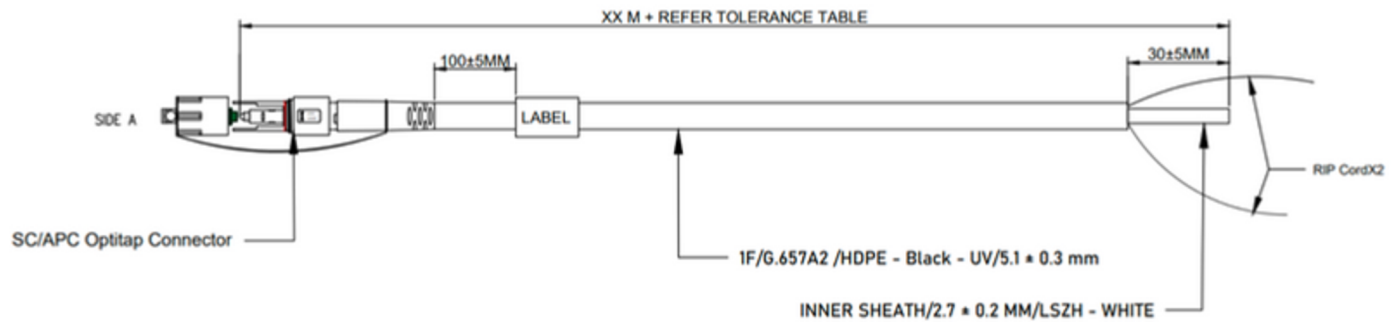
Single end Pre-Connectorized LC/APC Assembly



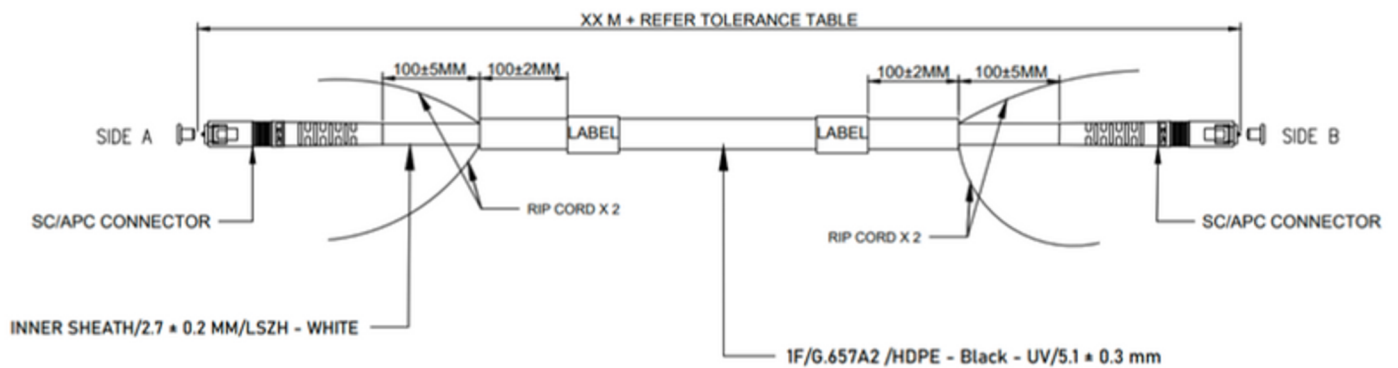
Single end Pre-Connectorized SC/APC Assembly



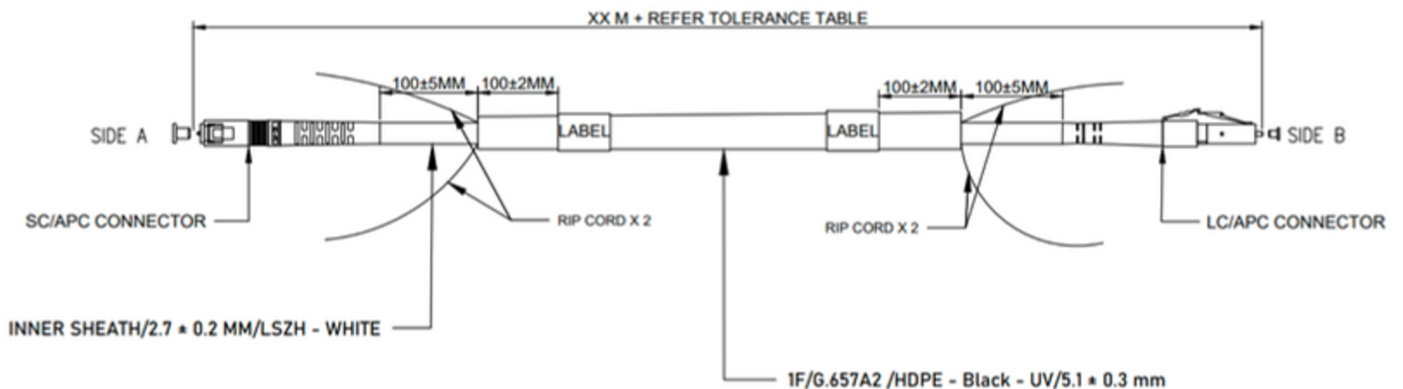
Single end Pre-Connectorized Opti-Tap Assembly



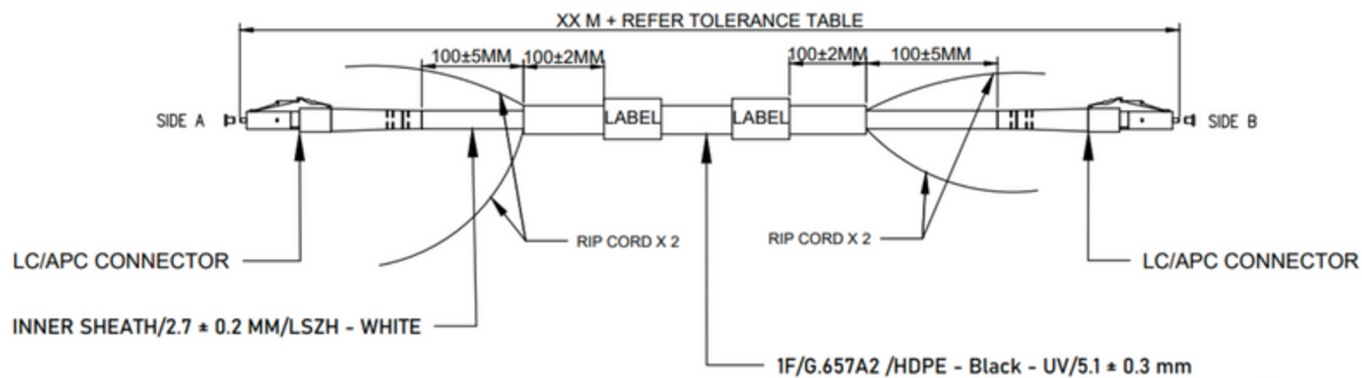
Both end Pre-Connectorized SC APC – SC APC Assembly



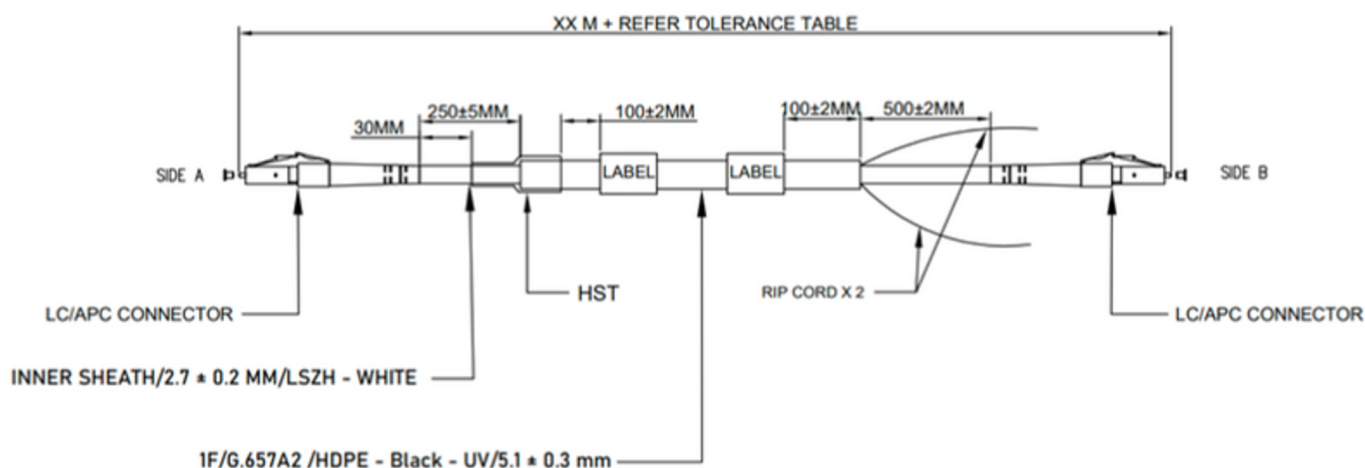
Both end Pre-Connectorized LC APC – SC APC Assembly



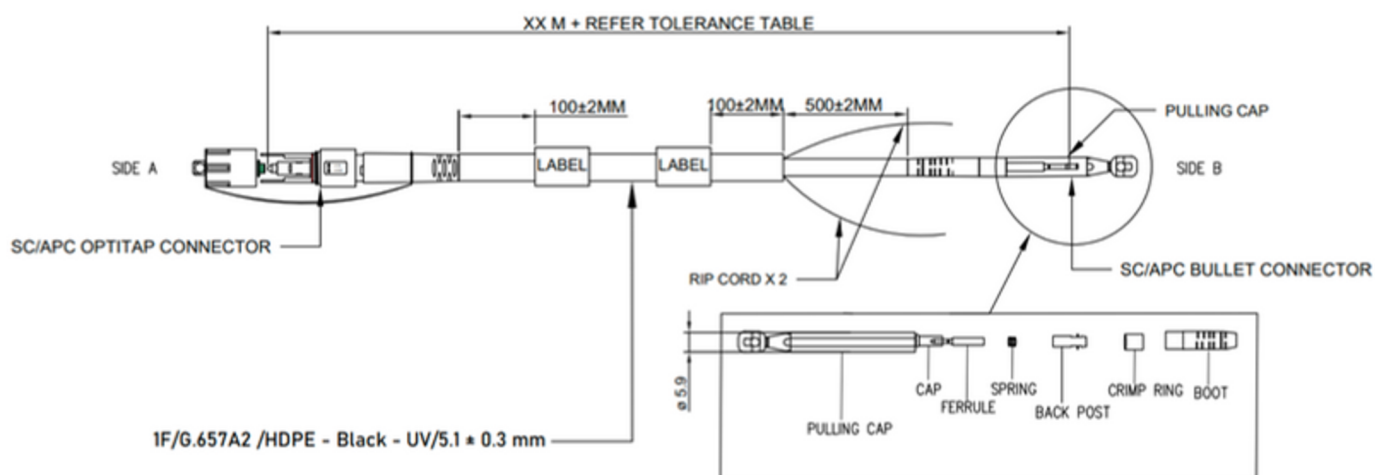
Both end Pre-Connectorized LC APC – LC APC Assembly – Type I



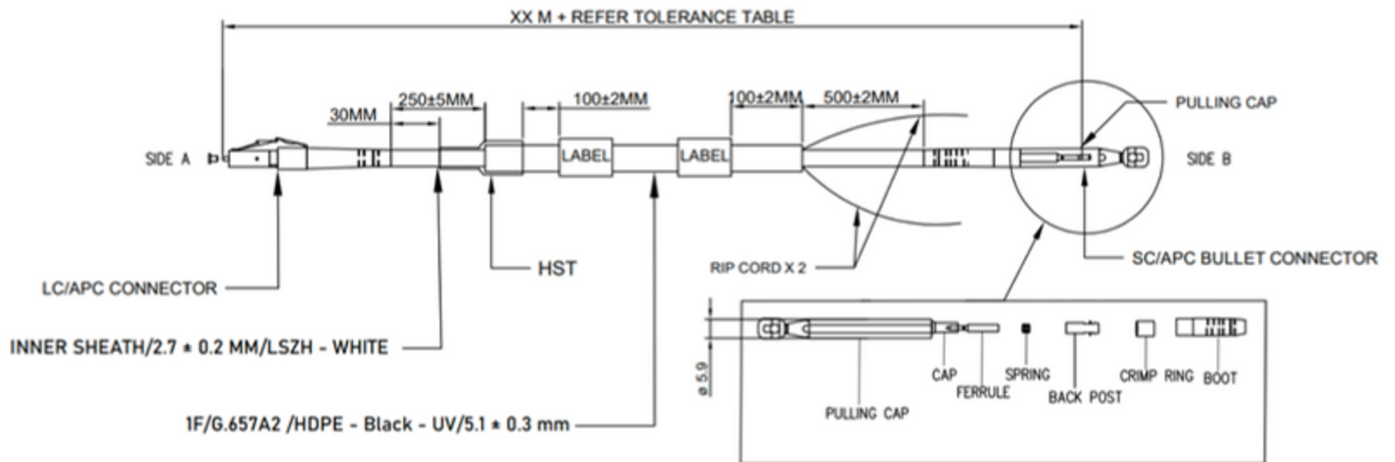
Both end Pre-Connectorized LC APC – LC APC Assembly – Type 2



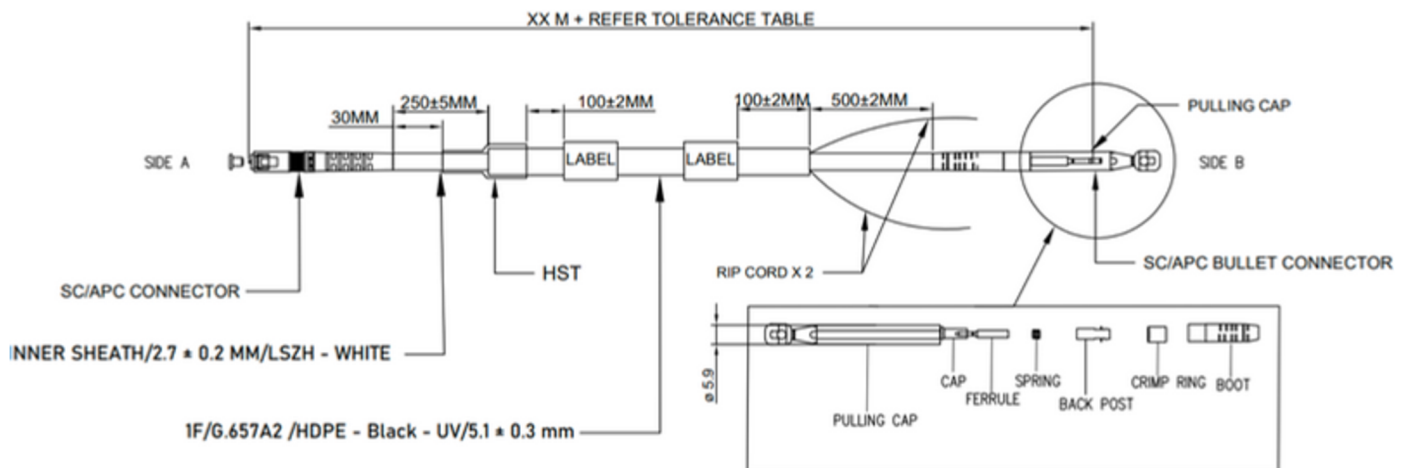
Both end Pre-Connectorized Opti-Tap – SC APC Bullet Connector Assembly



Both end Pre-Connectorized LC APC – SC APC Bullet Connector Assembly



Both end Pre-Connectorized SC APC – SC APC Bullet Connector Assembly



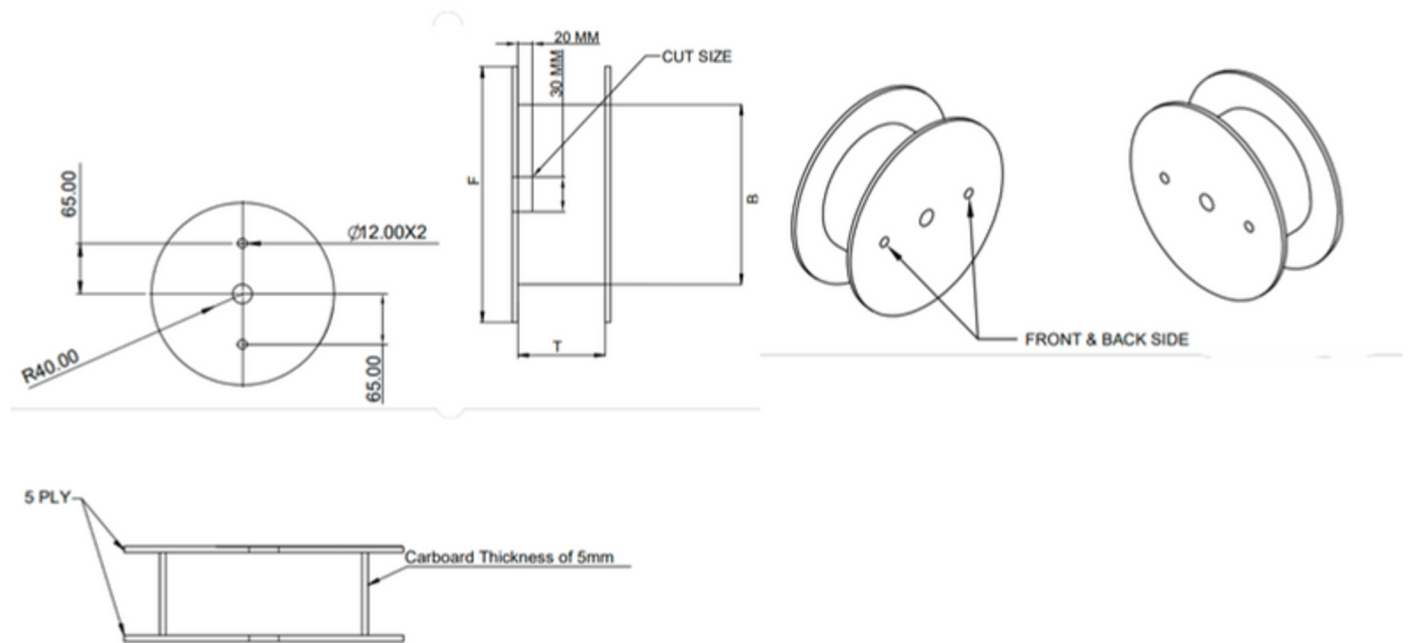
Applicable Standards

IEC 60793, ITU-T, IEC 60794, RoHS, REACH

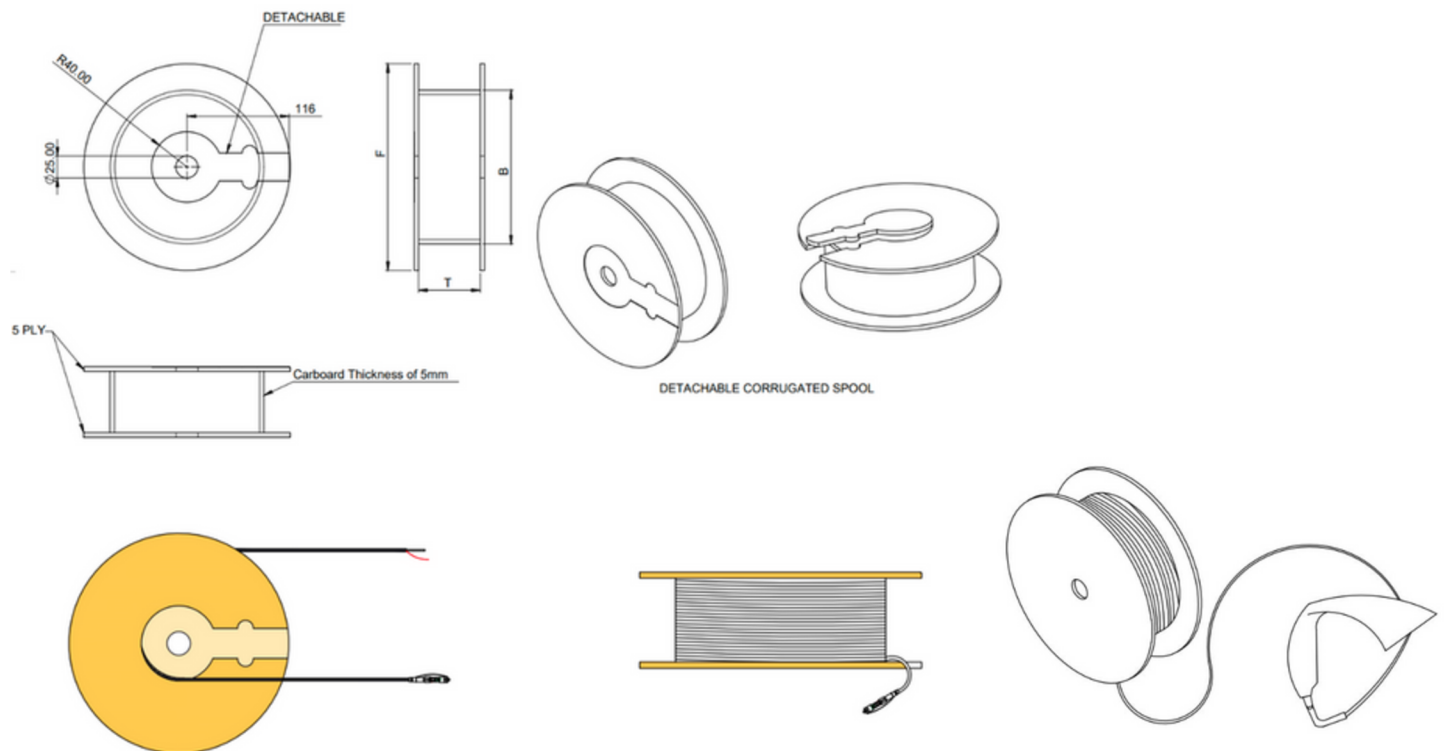
Packaging Details

- Coiled assembly packaged in a bag (up to 30 meters)
- Assemblies over 30 meters, supplied on spools

For Single End Connectorized Spool



For Both End Connectorized Spool



Ordering Guide

