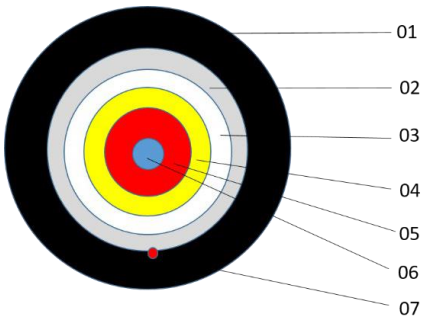
DATASHEET

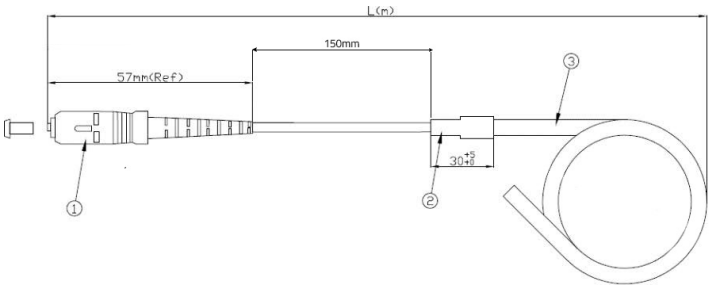
INSIDE/OUTSIDE DOUBLE SHEATHED DROP CABLE 1FO SC/APC G.657B3



LEGEND	
1	Outer jacket
2	Water blocking tape
3	Inner jacket
4	Aramid yarn
5	Buffer
6	Optical fibre
7	Rip cord

The Telenco® double sheathed drop cable is a high-performance solution designed to simplify outdoor-to-indoor fibre transitions. It features a robust 5.0 mm UV-resistant LSZH outer jacket for outdoor protection and a 3.0 mm flame-retardant LSZH inner cable, making it fully compliant with CPR B2Ca s1a d0 a1 standards for indoor applications. The cable uses G657.B3 singlemode fibre, offering excellent bend insensitivity, ideal for compact installations and challenging routing environments. With a nominal weight of just 21 kg/km and a 0.9 mm buffered fibre, it ensures a lightweight and flexible installation without compromising on durability or performance.

An integrated rip cord allows for quick and clean outer sheath removal, reducing installation time and labour costs. The presence of an aramid yarn strength member enhances tensile strength, supporting reliable pulls through ducts or entry points. This cable is specifically engineered to maintain a stable optical budget across transition zones, making it ideal for FTTH deployments. Its dual-sheath construction ensures protection in outdoor environments while safely meeting the fire safety requirements for indoor use.



Connector assembly scheme

CABLE SPECIFICATION

Fibre type	G657.B3	
Fibre cores	1FO	
Outer jacket	OD (mm)	5.0mm
	Material	UV-LSZH
	Colour	Black
Inner cable	OD (mm)	3.0mm
	Material	FR-LSZH
	Colour	White
Buffer	OD (mm)	0.9mm
	Material	LSZH
Nominal weight (kg/km)	21	
Strength member	Aramid yarn	
Sheath removal	Rip cord	
CPR	Inner cable B2Ca	

FEATURES & BENEFITS

Enables simple, fast and reliable outdoor – indoor transactions
Compliant with CPR B2Ca s1a d0 a1 inner cable, enables indoor application
Easy to remove outer jacket

MECHANICAL AND ENVIRONMENTAL PERFORMANCE

PARAMETRES	Method	VALUES
Tensile performance	IEC 60794-1-21 – Method E1	100N (Long term) / 200N (Short term)
Crush	IEC 60794-1-21 - Method E3	300N (Long term) / 1000N (Short term)
Impact	IEC 60794-1-21 - Method E4	Impact energy : 1Nm
Outer cable bend	IEC 60794-1-21 - Method E11A	12 x fibre cable diameter, 5 turns per helix, 3 cycles
Inner cable band	IEC 60794-1-21 - Method E11A	10mm 5 turns per helix, 3 cycles
Torsion	IEC 60794-1-21 - Method E27	20N ± 180°, 10 cycles
Temperature cycling	IEC 60794-1-22 - Method F1	-10°C ~ 60°C
Abrasion	IEC 60794-1-21 - Method E2B	5N, 5 times
Frame retardant (Inner cable)		CPR B2Ca

OPTICAL PERFORMANCE

PARAMETRES	VALUES
Fibre type	G657B3
Attenuation (dB/km)	0.35 (1310nm)/0.21 (1550nm)
Zero dispersion slope	≤0.092 ps/(km*nm2)
Dispersion (1285~1340nm)	-3.5~3.5 ps/(km*mm)
Mode field diameter @1310nm	8.4~9.2μm
Cut-off wavelength cable (nm)	≤1260
Min bend diameter (mm)	5
Cladding diameter (μm)	125.0±0.7
Coating diameter (μm)	240±5

CONNECTOR PERFORMANCE

PARAMETRES	VALUES
Connector type	SC/APC
IL	1310nm/1550nm≤0.30dB
RL	≥60dB
Storage Temperature:	-40℃~+70℃
Work Temperature	20℃~+60℃