Indoor/Outdoor Dual Purpose Subscriber Drop Cable

1-4f Dual Jacket, G657B3, CPR Cca

Features

- G657B3 Bend insensitive fibre
- Tight buffered
- UV stable outer jacket
- Small cable outer diameter
- Aramid yarn high tensile strength
- Inner LSZH cables compliant to Cca -s1a, d0 -a1
- Compliant to directive 2002/95/EC (RoHS)

Application

Drop cable for indoor/outdoor FTTx applications.
The drop cable is primarily intended for direct installation, i.e. installation with clips or routing inside cable raceways and mouldings. This installation technique puts extra tough requirements on the cables in terms of bend performance, crush resistance and other mechanical parameters.
The drop cable has extremely good bend performance due to the G657B3 fiber and the built in bend restriction of the cable design.

Design

The Hexatronic FTTx Internal / External FTTx Drop cable meets of indoor fibre optic distribution requirements and is CPR rated to Cca when the outer UV stable Jacket is removed. Crush resistant and suitable for installation with a bend radius down to 7.5mm.

Product Information

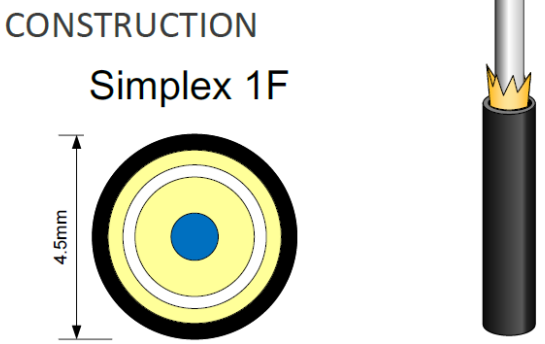
1. Optical fiber
2. Tight buffer
3. Inner strength member
4. Inner jacket
5. Outer strength member
6. Outer jacket

Technical Information

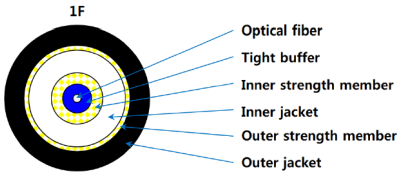
Product Color	Black
Color Code	TIA598
Temperature, Operation [°C]	-20 to +70
Temperature, Storage [°C]	-15 to +70
Temperature, Installation [°C]	-20 to +70
Water Blocking	Length water blocking according to IEC 60794-1-2-F5C (Outer jacket only)
Reaction to Fire	Cca -s1a, d0 -a1, IEC 60332-1 (inner jacket)
Fiber Type	G657B3
Attenuation @Wavelength [nm]	1310/1550
Maximum Attenuation [dB/km]	0.40/0.30

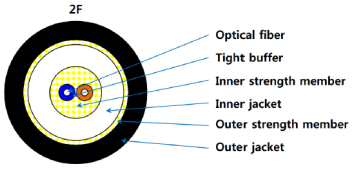
Conformance	Tensile, short term - IEC 60794-1-21, E1 Tensile, long term - IEC 60794-1-21, E1 Abrasion, cable sheath - IEC 60794-1-21, E2A Abrasion, cable sheath marking - IEC 60794-1-21, E2B Crush - IEC 60794-1-21, E3A Impact - IEC 60794-1-21, E4 Bend, multiple turns - IEC 60794-1-21, E11A For details on test conditions, contact Hexatronic.
Certifications	Cca -s1a, d0 -a1 (Inner cable) RoHS 2002/95/EC
Marking	Example of sheath marking, 1 time/meter: "HEXATRONIC XXX yymmddtt TOL4063035/1C 1F G657B3 TIA-598 Cca-s1a,d0,a1 xxxxx m" where XXX = plant code, yymmddhh = year, month, day of manufacture, xxxx=running meter marking
Installation Notes	To enable flame resistance for indoor installations, the black outer jacket shall be removed. The jacket shall not be removed for sections installed outdoors.

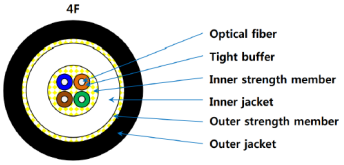
Technical Details



Test	Condition	Criteria	Specification
Tensile strength	Applicable tensile load are followed by table 2.	after: ≤ 0.2 dB	IEC 60794-1-21-E1
Crush	$Load_{max}$=1000N/10 cm, 5min., 3point	after: ≤ 0.2 dB	IEC 60794-1-21-E3
Impact	5J, 1impact, 3point	after: ≤ 0.2 dB	IEC 60794-1-21-E4
Repeated Bend	3bend, 3cycles, 15xD.	after: ≤ 0.2 dB	IEC 60794-1-21-E6
Torsion	±180°, 2m, 10 cycle, under load 5N	after: ≤ 0.2 dB	IEC 60794-1-21-E7
Bend	±180°, 20xD, 10 cycle	after: ≤ 0.2 dB	IEC 60794-1-21-E11
Temperature cycling test	- Temperature +20°C → −20°C → +70°C +20°C	after: ≤ 0.2 dB/km	IEC 60794-1-22-F1
Water Penetration	1m height, 3m length, 24hr	No leakage of water	IEC 60794-1-22-F5B
UV resistance test	300hrs, xenon-arc, 1cycle	≥85%	UL 1581
Flame retardant	≥85%	UL 1581	IEC 60332-1-2







Articles 3

Article name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Tensile Force, Operation [N]	Crush [N/100 mm]	Impact [J]	Diameter Ø [mm]	Weight [kg/km]	Form of Delivery
Drop cable Dual jacket ID/OD 1f G657B3 TOL4063035/1C	Black/ White	1	1 × 900 µm	45	700	200	500	5	4.5 / 3	21	1000 m reel
Drop cable Dual jacket ID/OD 2f G657B3 TOL4063036/2C	Black/ White	2	2 × 600 µm	52	1000	200	500	5	5.2 / 3.5	28	1000 m reel
Drop cable Dual jacket ID/OD 4f G657B3 TOL4063036/4C	Black/ White	4	4 × 600 µm	52	1000	200	500	5	5.2 / 3.5	28	1000 m reel

