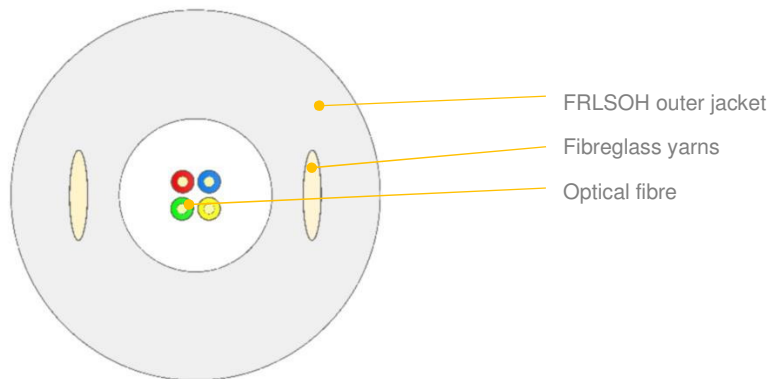


FTTH indoor/outdoor single jacket drop cable with fiberglass yarns reinforcement DC-T40



*schematic drawing, not to scale

DESIGN:

Fiberglass yarn as stain relief elements
Optical fibre
Fire Resistant LSOH outer sheath

DESIGN:

Variant	Quantity [pcs]	Ø nominal (±0,15) [mm]	Nominal weight (±10%) [kg/km]	Max allowed tension [N]	Max static tension [N]	Min bending radius [mm]
	Fibres					
1-4F	1-4	4,2	17	150	50	15

TECHNICAL AND ENVIRONMENTAL CABLE CHARACTERISTICS:

Test	Specification	Method	Requirements
Tensile strength	IEC60794-1-21 Method E1	Sustained load: 50N, $\epsilon=0,15\%$	$\Delta\alpha \leq 0.05\text{dB/km}$ @ 1550nm (after test) No significant damage to fibre unit
		Extended load: 150N, $\epsilon=0,5\%$	$\Delta\alpha \leq 0.05\text{dB/km}$ @ 1550nm (after test) No significant damage to fibre unit
Crush resistance	IEC60794-1-21 Method E3	1100 [N/10 cm]	$\Delta\alpha$ reversible @ 1550nm (after test)
Impact resistance	IEC60794-1-21 Method E4	Impact energy: 5J Radius: 300 mm Distance: 1m No. of impacts: 3 at different points 500mm apart	$\Delta\alpha \leq 0.1\text{dB}$ @ 1550nm (after test) No jacket cracking and fibre breakage
Torsion	IEC60794-1-21 Method E7	Cable length to be twisted: 1m No. of cycles: 5 Twist angle: $\pm 180^\circ$ Load: 20N	$\Delta\alpha \leq 0.1\text{dB}$ @ 1550nm (after test) No jacket cracking and fibre breakage
Repeated Bending	IEC60794-1-21 Method E6	Mandrel radius: R = 5mm No. of cycles: 30 Load: 20N	No damage
Bending	IEC60794-1-21 Method E11	Mandrel radius: R = 10mm / 5 turns (wrapped and unwrapped) / 10 flexing cycles	$\Delta\alpha \leq 0.05\text{dB}$ @ 1550nm (after test) No jacket cracking and fibre breakage
Temperature range	IEC 60794-1-22 Method F1	Installation -0... +30 [°C] Operation -25... +50 [°C] Transport & Storage -25... +50 [°C]	$\Delta\alpha \leq 0.1\text{dB/km}$

(*) values for single-mode fibres, all optical measurements performed at 1550nm

OPTICAL FIBRE AND TIGHT TUBES COLOUR IDENTIFICATION

For optical fibres and loose tube identification information please see DSH_Colors_CODE_XXXX document.

FIBRE PARAMETERS

For selected post-production optical fibres parameters please see DSH_OFP document.

Type:	DC-T40	REV 1.3
Issued:	29/09/2016	MM
Modified:	16/02/2021	KP

MARKING

The following print (inkjet) is applied at 1-meter intervals:

- Supplier: FIBRAIN
- Standard code (Product type, fibre type, fibre count)
- Year of manufacture: xxxx
- Length marking in meters
- Cable ID / Drum No

Example:

FIBRAIN DC-T40 4F SM G657A2 "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is $\pm 0.5\%$. Remarking is in accordance with Bellcore GR 20 and supersedes earlier markings. Occasional loss of marking is possible. Cables can be supplied with a range of single mode or multimode fibres and customized print.

PACKAGING

Cables will be shipped on disposable plywood, wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Rotation direction arrow will be marked on the drum together with identification information.

DELIVERY LENGTH

2000 – 8000 meters $\pm 5\%$, with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.

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