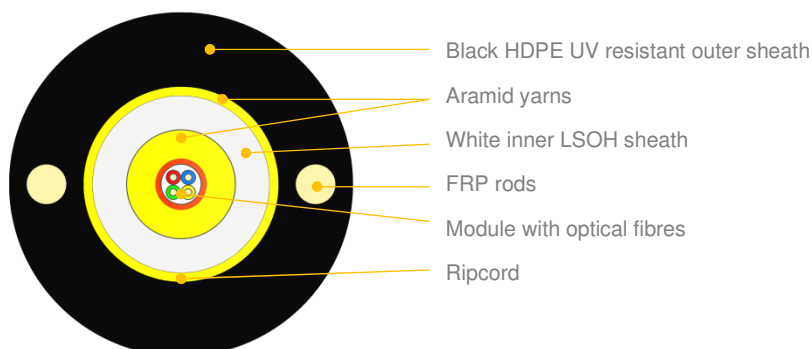


Type:	VC-T60 FOL	REV 0
Issued:	23/11/2021	KP
Modified:		
Project:	079-21	

FTTH indoor/outdoor double jacket drop cable with aramid yarns and FRP rods reinforcement



*schematic drawing, not to scale

APPLICATION:

Drop cable for FTTH networks
 Optical access cable with aramid yarns reinforcement
 Direct buried construction
 Fully dielectric
 Last mile connection

DESIGN:

Aramid yarns as strength and water absorbent elements
 Easy strip buffer or modules with optical fibres
 Embedded strength members (FRP)
 Highly resistant, UV stabilized HDPE outer sheath

DESIGN:

Variant	Quantity [pcs]				Ø nominal (±0,2) [mm]	Nominal weight (±10%) [kg/km]	Max allowed tension [N], $\epsilon_f=0,3\%$	Max static tension [N], $\epsilon_f=0,05\%$
	Fibres	Fibres per tube	Total elements	Active tubes				
4F	4	4	1	1	6,0	30	800	250
1F	1	1	1	1	6,0	30	800	250

TECHNICAL AND ENVIRONMENTAL CABLE CHARACTERISTICS

Test	Specification	Method	Requirements
Tensile strength	IEC60794-1-21 Method E1	Sustained load: 250N	Fibre strain: $< 0.05\%$ (during test) $\leq 0.05\%$ (after test) Attenuation increment: $\Delta\alpha \leq 0.05\text{dB @ } 1550\text{nm}$ (after test) No significant damage to fibre unit
		Extended load: 800N	Fibre strain: $< 0.3\%$ (during test) $\leq 0.05\%$ (after test) Attenuation increment: $\Delta\alpha \leq 0.05\text{dB @ } 1550\text{nm}$ (after test) No significant damage to fibre unit
Crush resistance	IEC60794-1-21 Method E3	2000 [N/10 cm]	$\Delta\alpha \leq 0.1\text{dB @ } 1550\text{nm}$ (after test) $\Delta\alpha$ reversible @ 3000 N
Impact resistance	IEC60794-1-21 Method E4	Sample length: ~20m Impact energy: 5N.m Radius: 10 mm No. of impacts: 3 at different points 200mm apart	$\Delta\alpha \leq 0.1\text{dB @ } 1550\text{nm}$ (after test) $\Delta\alpha$ reversible @ 7 N.m No jacket cracking and fibre breakage
Torsion	IEC60794-1-21 Method E7	Cable length to be twisted: 1m No. of cycles: 10 Twist angle: $\pm 180^\circ$ Load: 25N	$\Delta\alpha \leq 0.1\text{dB @ } 1550\text{nm}$ (throughout the test) No jacket cracking and fibre breakage
Bending	IEC60794-1-21 Method E11	Mandrel radius: 60mm / 10 turns / 5 flexing cycles	$\Delta\alpha \leq 0.1\text{dB @ } 1550\text{nm}$ (after test) No jacket cracking and fibre breakage
Water penetration	IEC 60794-1-22 Method F5B	Water head: 1m Sample length: 3m Time: 168 hrs	No water leakage
Tube kink	IEC 60794-1-21 Method G7	Kink radius: 30mm Number of samples: 3	No tube kink
Temperature cycling	IEC 60794-1-22 Method F1	$+23^\circ\text{C} \rightarrow +40^\circ\text{C}(T_{A2}) \rightarrow +70^\circ\text{C}(T_{B2}) \rightarrow +23^\circ\text{C}$	For T_{A2} and T_{B2} $\Delta\alpha \leq 0,1\text{dB/km}$ Test wavelength: 1550nm

Type:	VC-T60 FOL	REV 0
Issued:	23/11/2021	KP
Modified:		
Project:	079-21	

OPTICAL FIBRE AND TIGHT TUBES COLOUR IDENTIFICATION

Identification colours see **DSH_Colors_CODE_XXXX**

FIBRE PARAMETERS

Fibres parameters characteristic see **DSH_OFP**

MARKING

The following print is applied at 1 meters intervals

-VC-T60-1FO 900µm :

CBD FOLAN - 122011006 - www.folan.net - REUNICABLE- 1x 9/125 G657A2 -mmmmM - BCFNNNNN - Txx

Example:

CBD FOLAN - 122011006 - www.folan.net - REUNICABLE- 1x 9/125 G657A2 -00001M - BCF101011156 - T01

VC-T60-4FO micromodule :

CBMG FOLAN – 127041005 - www.folan.net -4x 9/125 G657A2- mmmmmM – BCFNNNNN – Txx

Example:

CBMG FOLAN - 127041005 - www.folan.net - 04 x 9/125 G657A2 - 0001M - BCF101007146 – T01

Legend:

mmmmM = length in meters

BCFNNNNN = order number

Txx = piece 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 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.

This document and the statements contained in it are not intended for customers within the meaning of the Civil Code. The information submitted in this document is to our knowledge and belief true at the time of issue, however, we do not assume any liability whatsoever for its accuracy, and completeness. This document is for informational purposes on an "as is" basis only and Manufacturer reserves the right to change its contents at any time without prior notice. The specification cannot, in any case, be considered an offer within the meaning of the Civil Code and is not contractually valid unless specifically authorized by Manufacturer. Before using this product, its buyer and/or user has to make sure that it is suitable for the intended use. All liability issues related to this product are subjected to the seller's separate Terms of Sale or the terms and conditions agreed with the Manufacturer representative or distributor.