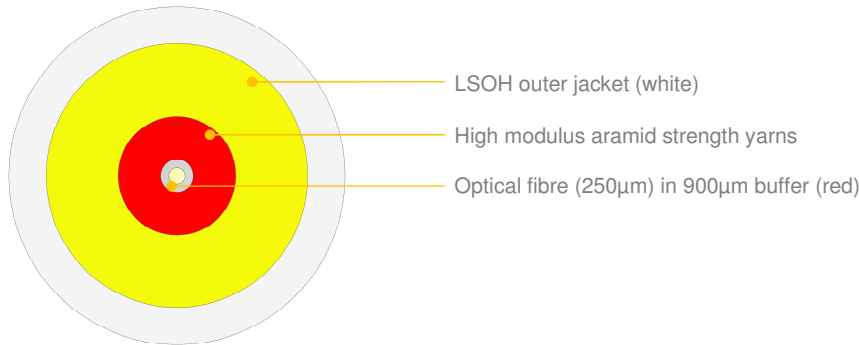


Type:	VC-D40	REV: 0
Issued:	23/11/2021	KP
Project:	079-21	

FTTH Single Jacket LSOH Drop Cable with Aramid Strength Members VC-D40 / 1F / 1 buffer



*schematic drawing, not to scale

APPLICATION:

Optical cable with aramid yarns reinforcement
For customer connection
Fully dielectric cable
Last mile connection
LAN and FTTX networks
Distribution network
ODF connections
Inside house OLT connection

DESIGN:

Aramid strength element
Optical fibres (1 x G.657A2) inside 900µm buffer
LSOH outer jacket (white / RAL 9010)

DESIGN

Variant	Quantity [pcs]				Ø nominal (±0,1) [mm]	Nominal weight (±10%) [kg/km]	Max allowed tension [N], $\epsilon_t=0,5\%$	Max static tension [N], $\epsilon_t=0,05\%$
	Fibres	Fibres per module	Total elements	Active modules				
1F	1	1	11	1	4,1	15	420	150

TECHNICAL AND ENVIRONMENTAL CABLE CHARACTERISTICS

Test	Specification	Method	Requirements
Tensile strength	IEC60794-1-21 Method E1	Sustained load: 150N / 10 min Sample Length: 100 m	Fibre strain: < 0.05%(during test) ≤ 0.05%(after test) Attenuation increment: $\Delta\alpha \leq 0.05\text{dB}$ @ 1550nm (after test) No significant damage to fibre unit
		Extended load: 420N or $\epsilon=0.5\%$ / 10 min Sample Length: 100 m	Fibre strain: < 0.5%(during test) ≤ 0.05%(after test) Attenuation increment: $\Delta\alpha \leq 0.05\text{dB}$ @ 1550nm (after test) No significant damage to fibre unit
Crush resistance	IEC60794-1-21 Method E3	Load: 2000 N @ 10 cm / 15 minutes / 5 repeats 10cm apart	$\Delta\alpha \leq 0.1\text{dB}$ @ 1550nm (after test) $\Delta\alpha$ reversible @ 2550 N
Impact resistance	IEC60794-1-21 Method E4	Impact energy: 3N.m	$\Delta\alpha \leq 0.1\text{dB}$ @ 1550nm (after test) No jacket cracking and fibre breakage Optic continuity @ 5 N.m
Torsion	IEC60794-1-21 Method E7	Cable length to be twisted: 1m No. of cycles: 20 Twist angle: starting position to -180° to starting position to $+180^\circ$, and back Load: 25N	$\Delta\alpha \leq 0.1\text{dB}$ @ 1550nm (throughout he test) No jacket cracking and fibre breakage
Bending	IEC60794-1-21 Method E11	Static: 15mm Dynamic: 20mm	$\Delta\alpha \leq 0.1\text{dB}$ @ 1550nm (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
Temperature cycling	IEC 60794-1-22 Method F1	$+23^\circ\text{C} \rightarrow -30^\circ\text{C}(T_{A1}) \rightarrow -40^\circ\text{C}(T_{A2}) \rightarrow +70^\circ\text{C}(T_{B2}) \rightarrow +23^\circ\text{C}$	For T_{A2} and T_{B2} $\Delta\alpha \leq$ reversible For T_{A1} and T_{B1} $\Delta\alpha \leq 0,1\text{dB/km}$ Test wavelength: 1550nm

Type:	VC-D40	REV: 0
Issued:	23/11/2021	KP
Project:	079-21	

OPTICAL FIBRE AND TIGHT TUBES COLOUR IDENTIFICATION

Identification colours see **DSH_Colors_CODE_XXXX**

FIBRE PARAMETERS

Fibres parameters characteristic see **DSH_OFFP**

MARKING

The following print is applied at 1 meters intervals:

Example:

CBD FOLAN – 122011004 - www.folan.net -1x 9/125 G657A2- mmmmM – BCFNNNNN - Txx

mmmmM : Metric mark

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 protected plywood drums. Both ends of the cable will be capped and accessible for testing. Identification information will be placed on the drum.

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.