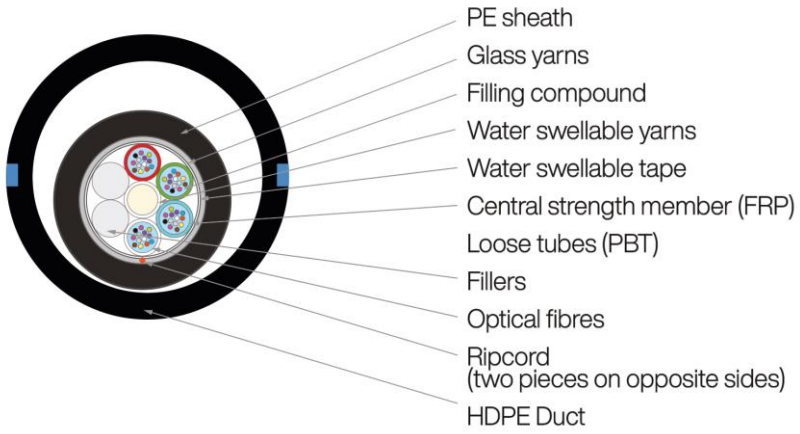
Preloaded HDPE Duct

with BDC-CI T20 SM G657A1 FIBRE Cable



Application

Outdoor use
Direct buried
Core networks
Distribution networks
Outdoor Plant Duct Installation

Cable design

Highly resistant, UV stabilized HDPE outer jacket
Fibre-glass yarns as a strain relief and rodent protection
SZ stranded cable core
FRP central rod
Jelly filled, PBT loose tubes (2,0mm) with optical fibres
Fillers (if applicable)
Dry cable core - water-blocking tape and/or yarns
Ripcord – two pieces on opposite sides
Sheath options: LSOH, PA etc.
Nominal outer sheath thickness 1,6mm

Duct design

High mechanical resistance
Designed to protect optical cables from mechanical and environmental impact
Manufactured in black color in standard with parallel stripes on the outer surface

Cable Variants

Variant	Quantity [pcs]				Ø nominal (±5%)	Nominal weight (±10%)	Max short term tensile load	Max long term tensile load
	Fibres	Fibres per tube	Total elements	Active tubes	[mm]	[kg/km]	[N]	[N]
4T x 12F	48	12	6	4	10,0	74	2700	1200
Other designs available on demand								

*Other fibre counts available on demand

DUCT VARIANTS

Version	Outer Ø nominal (±0.3mm)	Nominal wall thickness (±0.5mm)	Circumferential stiffness SN	Compression resistance	Additional features
	[mm]	[mm]	[kN/m2]	[N]	
RHDPE 32/2,6	32	2.6	32	450	
RHDPE 32/2,9	32	2.9	64	750	
RHDPE 32/2,6 UV	32	2.6	32	450	UV resistant
RHDPE 32/2,9 UV	32	2.9	64	750	UV resistant

CABLE MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	2000 [N/10 cm]	IEC 60794-1-21-E3, Δα≤0,05 dB, reversible
Bending radius:	Static: 15 x D Dynamic: 20 x D	IEC 60794-1-21-E6, Δα≤0,05 dB, reversible
Water penetration:	3[m] sample, 1[m] head, 24[h]	IEC 60794-1-22-F5, no leakage
Temperature range		IEC 60794-1-22-F1, Δα≤0,05 dB/km
Installation:	-15... +55 [°C]	
Operation:	-40… +70 [°C]	
Transport & Storage:	-40… +70 [°C]	
CPR Class:	Fca, DoP 0057	EN 50575:2014+A1:2016

(*) The declared values apply only to cables with single-mode fibres and are given for 1550nm wavelength

DUCT CHARACTERISTICS

Material	HDPE – High Density Polyethylene
Density	> 940 kg/m3
Operating temperature	-25… 90°C
Ovality	≤ 6%
Color	black
Applicable Standards:	PN-EN 61386-24

OPTICAL FIBRE AND LOOSE TUBES COLOUR IDENTIFICATION

For optical fibres and modules identification information please see **DSH_Colors_CODE_XXXX** document.

FIBRE PARAMETERS

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

CABLE MARKING

The following print (laser or other suitable printing method) is applied at 1-meter intervals.

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

Example: BDC-CI T20 12F SM G657A1 2T6F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ± 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.