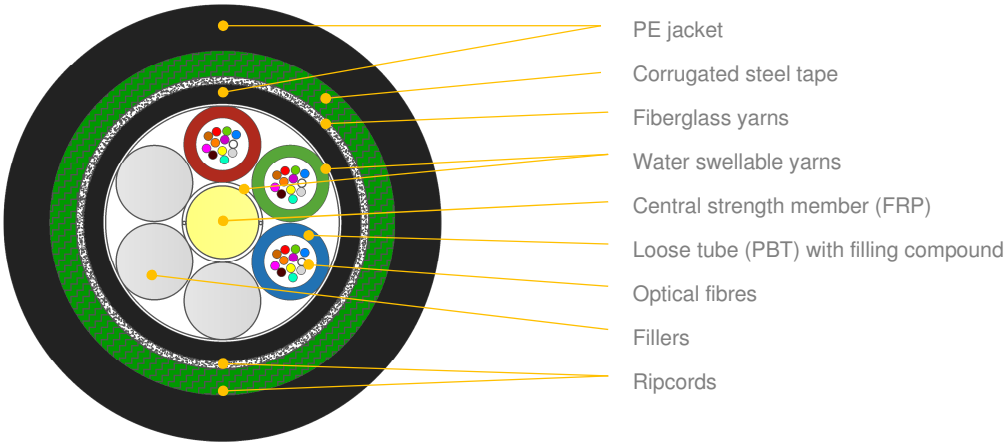
Type:	DSC-CI	REV: 1.7
Issued:	30/08/2018	PB
Modified:	20/01/2021	KP

Double jacket cable with multitube structure, glass yarn reinforcement, and corrugated steel armouring - DSC-CI



*schematic drawing, not to scale

APPLICATION:

For installation into existing duct or directly buried
Rodent retardant

DESIGN:

FRP strength and anti-buckling element
Dry yarns and tape to prevent moisture into the cable
Loose tube (PBT Ø 2.0mm) with filing compound
Optical fibres
Fillers (if applicable)
Fibreglass yarns as strain relief
Corrugated steel tape armouring
Double UV stabilized PE sheath
Sheath options: LSOH, PA etc.

CABLE DESIGNS:

Variant	Quantity [pcs]				Ø nominal (±5%)	Nominal weight (±10%)	Max short term tensile load ε≤0,5%	Max short term tensile load ε≤0,33%	Max long term tensile load
	Fibres	Fibres per tube	Total elements	Active tubes	[mm]	[kg/km]	[N]	[N]	[N]
1-6T x 6F	6-36	6	6	1-6	11,4	168	4000	2700	1400
1-6T x 12F	12-72	12	6	1-6	11,4	169	4000	2700	1400
8T x 12F	96	12	8	8	13,2	203	4000	2700	1400
12T x 12F	144	12	12	12	15,2	269	4000	2700	1400
Other designs on demand									

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	4000 [N/10 cm]	IEC 60794-1-21-E3, Δα reversible
Bending radius:	Static: 20 x D Dynamic: 30 x D	IEC 60794-1-21-E6, Δα≤0,05 dB
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 [℃]	
Operation:	-40… +70 [℃]	
Transport & Storage:	-40… +70 [℃]	

OPTICAL FIBRE AND LOOSE 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.

MARKING

The following print (white / hot foil) 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 DSC-CI T20 12F SM G652D 1T12F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ±1%. 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.

PACKING

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 meters ± 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.