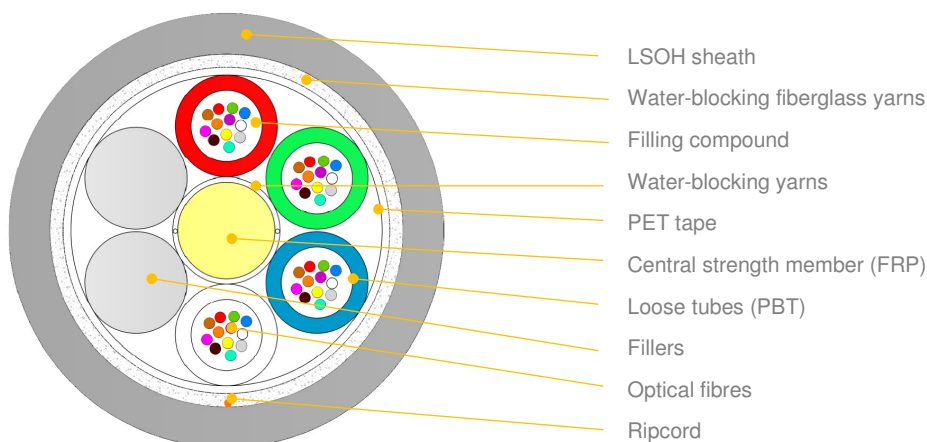


## Basic Duct Cable with Multitube Structure BDC MSA-LH



\*not to scale

### APPLICATION

For installation into existing ducts  
Fully dielectric  
Rodent protection

### DESIGN

LSOH outer sheath  
Fiberglass yarns as a strain relief and rodent protection  
PET tape  
Loose tubes (PBT Ø 1,8mm) with filing compound  
Fillers (if applicable)  
Optical fibres  
Water-blocking yarns to prevent moisture into the cable core  
FRP strength and anti-buckling element

### CONFIGURATION

Version	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]	Max allowed tension [N]	Max static tension [N]
	Fibres	Fibres per tube	Total elements	Active tubes				
1-6T x 2F	2-12	2	6	1-6	8.2	64	1500	900
1-6T x 4F	4-24	4	6	1-6	8.2	65	1500	800
1-6T x 6F	6-36	6	6	1-6	8.2	65	1500	700
1-6T x 8F	8-48	8	6	1-6	8.2	66	1500	600
1-6T x 12F	12-72	12	6	1-6	8.2	69	1500	550
8T x 6F	48	6	8	8	9.3	85	2000	1000
8T x 12F	96	12	8	8	9.3	86	1600	650
12T x 12F	144	12	12	12	11.5	126	1800	850

Other fibre counts available on demand

### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	1500 [N/10 cm]	IEC 60794-1-21-E3, $\Delta\alpha \leq 0,05$ dB under test, no damage
Bending radius:	Static: 15 x D Dynamic: 20 x D	IEC 60794-1-21-E11, $\Delta\alpha \leq 0,05$ dB
Water penetration:	3m sample, 1m head, 24h	IEC 60794-1-22-F5, no leakage
Temperature range:	Installation: -5... +55 [°C] Operation: -30... +70 [°C] Transport & Storage: -40... +70 [°C]	IEC 60794-1-22-F1, $\Delta\alpha \leq 0,05$ dB/km
CPR class	E <sub>CA</sub>	EN 50575:2014+A1:2016

### 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.

Type:	BDC-MSA-LH	REV 5.1
Issued:	18/09/2014	SK
Modified:	21/06/2021	KP

## MARKING

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

- Handset symbol
- CPR Euro Class
- Double Sine symbol
- Supplier FIBRAIN
- Type of cable
- Year of manufacture: xxxx
- Standard code (Product type, fibre type, fibre count)
- Length marking in meters
- Cable ID / Drum No

Example:

HANDSET – EN 50575 Eca – " DOUBLE SINE" – FIBRAIN – Fibre Optic Cable – " YEAR OF MANUFACTURE" – BDC-MSA T18 48F SM G652D 4T12F LSOH – "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.

## PACKING

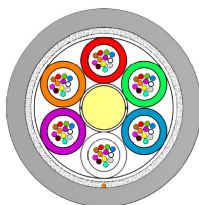
Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Rotation direction arrow will be marked on the drum together with identification information.

## DELIVERY LENGTH

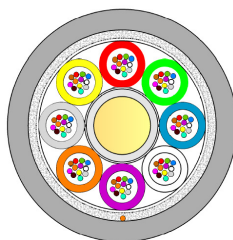
2000 – 8000 meters  $\pm 5\%$ , with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.

## ANNEX – DRAWINGS:

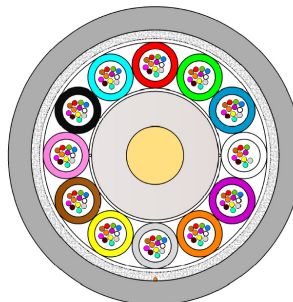
6 Elements Cable



8 Elements Cable



12 Elements Cable



\*not to scale

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