

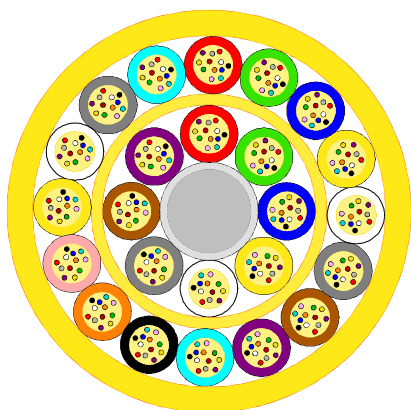


## JN-SM-LRE Xs

### Cable Design

Acc. to IEC 60794-5

JetNet:Stranded Loose Tube Fiber Optic Cable -dry core



- not to scale -

- **Optical fibre:** ITU-T G.657.A1 fibre, see specifications.
- **Secondary coating:** The fibres are, uniquely identified by a different colour, placed inside loose tubes made of high tensile strength thermoplastic compound.
- **Gel compound:** The tubes are fully filled with a non-toxic and dermatological safe gel compound.
- **Central Strength Member (CSM):** The central element consists of FRP (Fibre Reinforced Plastic), with water blocking swellable yarns.
- **Cable core:** The required number of tubes is stranded (SZ method) around the central element.
- **Inner Sheath:** HDPE.
- **Strength Yarns:** Under the inner and outer sheath aramid yarns are applied, serving as ripcord and as strengthening yarns.
- **Outer sheath:** HDPE Yellow.

### Application

Installation in backbones, metropolitan and access networks in ducts and micro-ducts.

### Configuration

No. of Fibers	No. of Tubes	Tube size [mm]	Number of fibres/tube [mm]	Diameter over cable core [mm]	Cable Diameter [mm]	Cable Weight [kg/km]
288	8 + 16	1.55	12	6.5	10.5	90



## Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile	IEC 60794-1-2-E1	500N Long term 1500N Short term	No fibre strain $\Delta\alpha \leq$ reversible
Crush	IEC 60794-1-2-E3	1000 N / 100 mm short term	$\Delta\alpha \leq 0.05$ dB
Impact	IEC 60794-1-2-E4	1Nm, r=200mm 3 spots	$\Delta\alpha \leq 0.05$ dB
Repeated Bending	IEC 60794-1-2-E6	R=25x D, 100 cycle	$\Delta\alpha \leq 0.05$ dB
Cable Bend	IEC 60794-1-2-E11	R=20x D	$\Delta\alpha \leq 0,05$ dB
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water column=1m	no water leakage in 24h

All optical measurements at 1550 nm.

Temperature Range	Transportation & Storage:	- 20 to + 70 °C
	Installation:	- 10 to + 50 °C
	Operation:	- 20 to + 70 °C

## Identification and Packing

### Fibre Colours

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Turquoise	Black	Orange	Pink

### Loose Tube Colours

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Turquoise	Black	Orange	Pink
No.	13	14	15	16								
Color	Yellow	White	Grey	Turquoise								

### Sheath Marking

The outer sheath is marked in 1 meter intervals as follows:

<b>DRAKA(DL) JETNET [dd/mm/yyyy] OPTICAL FIBRE CABLE Idno.[xxxxx] 288 xG657A1 [length marking]m</b>
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### Packing:

Standard length	4000 metres
Drum	Plastic drum or Plywood drum.
Protection on drum	Layer of Lamiflex® foil over the outer layer of cable