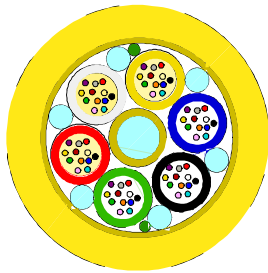




## JN-SM-LRE

### Cable Design

JetNet: Loose Tube Fiber Optic Cable -dry core-



# JETnet

- not to scale -

- **Central Strength Member (CSM):** glass fiber reinforced plastic rod (FRP), with plastic oversheathing when needed.
- **Loose Tube:** thermoplastic material, containing up to 32 fibers and filled with a suitable water tightness compound.
- **Filler Elements:** thermoplastic rods, where needed.
- **Stranding:** loose tubes (and fillers), SZ stranded around the CSM.
- **Cable core:** swellable tapes are applied over the stranding.
- **Fillers:** between stranded tubes and sheet to improve mechanical characteristics.
- **Outer sheath:** PE .

### Application

Installation in backbones, metropolitan and access networks in mini sub-ducts

### Configuration

No. of Fibers	No: of Tubes/ fillers	Number of fibres/tube	Cable Diameter	Cable Weight	Pulling Force dB
			[mm]	[kg/km]	[N]
		[mm]			
12	1/5	12	6.0	31.8	500
24	2/4	12	6.0	31.9	500
36	3/3	12	6.0	31.9	500
48	4/2	12	6.0	32.1	500
60	5/1	12	6.0	32.3	500
72	6/-	12	6.0	32.5	500
96	8/0	12	7.1	45.7	500
144*	6/0	24	8.0	57.0	800
196*	6/0	32	9.3	75	800

\* installation only with Cable Jet equipment.



## Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Crush	IEC 60794-1-2-E3	1000 N / 100 mm short term	$\Delta\alpha \leq 0.10$ dB
Impact	IEC 60794-1-2-E4	2 m, R= 200 mm, 3 spots	$\Delta\alpha \leq 0.10$ dB
Repeated Bending	IEC 60794-1-2-E6	R=15x D, 100 cycle	$\Delta\alpha \leq 0.10$ dB
Cable Bend	IEC 60794-1-2-E11	R=10x D	$\Delta\alpha \leq 0.10$ dB
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water column=1m	no water leakage in 24h

Temperature Range	Transportation & Storage:	- 40 to + 70°C	
	Installation:	- 10 to + 50°C	
	Operation:	- 40 to + 70°C	

All optical measurements at 1550 nm.

## Identification and Packing

### Fiber Colors (standard)

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

### Yarn colouring (24 fibres/tube, two bundles of 12 fibres)

No.	1	2
Color	Red	White

### Tube colouring(standard)

No.	1	2	3	4	5	6	7	8
Color	Red	White	Yellow	Blue	Green	Black	Brown	Violet

### Optical Characteristics:

See attached pdf-file : C03e

### Filler Elements Colors:

All filler elements are uncolored (natural).

### Sheath Color:

The colour is orange for graded index (multi mode), fibres and yellow for single mode fibres.

### Sheath Marking:

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

All sizes and values without tolerances are reference values

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JETNET DRAKA COMTEQ TELECOM [year of manufacture] [fibre count] x [fibre type] [length marking]
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**Packing:**

Wooden drums with protection.

**Delivery Lengths:**

Standard delivery lengths 4 km