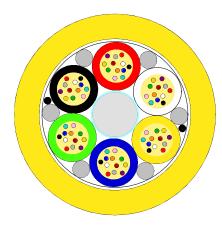


JN-SM-LRE XS n x12



stranded loose tube mini cables for use in ducts

Cable Design



- not to scale -

- **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 a water-swellable layer.
- Cable core: The required number of tubes (and dummy elements) are stranded (SZ method) around the central element.
- **Strength members:** Under the outer sheath 2 aramid yarns are applied, serving as ripcord and as strengthening yarns
- Fillers: between stranded tubes and sheath to improve mechanical characteristics.

-40 to +70

• Outer sheath: HDPE

This loose tube dielectric optical cable is designed for outdoor installation in ducts and micro ducts by blowing or pulling techniques.

Technical data								
No. of Fibres 96								
Design		8x12						
Loose Tube- Ø	mm	1.35						
Sheath thickness	mm	0.4						
Cable Diameter	mm	5.8						
Cable Weight	kg / km	31						
Tensile performance	N	500						

Main character	istics							
Test	Standa	rd	Specified value	ıe	Acceptance Criteria**			
Tensile performance	IEC 607	94-1-2-E1	See table abov	е	$\Delta \alpha \leq 0$.	$\Delta \alpha \leq 0.05 dB$		
Crush	IEC 607	94-1-2-E3	1000N, 100mm	n plate/plate 5r	nin. $\Delta \alpha \leq 0$.	$\Delta \alpha \leq 0.05$ dB, after test, no damage		
Impact	IEC 607	94-1-2-E4	5 Nm, R=300r	mm, 3 impacts	No dan	No damage		
Torsion	IEC 607	94-1-2-E7	±180°, L=1m,	10 cycles, 40N	$\Delta \alpha \leq 0$.	$\Delta \alpha \leq 0.05$ dB, No damage		
Kink	IEC 607	94-1-2-E10	Min diameter=	100mm	$\Delta \alpha \leq 0$.	$\Delta \alpha \leq 0.05$ dB, no damage		
Repeated bending	IEC 607	94-1-2-E6	R= 15x cable Ø	0,100 cycles, 20	ON No dam	No damage		
Cable bend	IEC 607	94-1-2-E11	R= 10x cable Ø), 5 turns, 3 cy	cles* $\Delta \alpha \leq 0$.	s* $\Delta \alpha \leq 0.05$ dB, No damage		
Temperature range	IEC 607	94-1-2-F1	-30 to +60°C		$\Delta \alpha \leq 0$.	$\Delta \alpha \leq 0.05 \text{ dB}$		
			-40 to +70°C		$\Delta \alpha \leq 0$.	$\Delta \alpha \leq 0.10 \text{ dB}$		
Water Penetration	IEC 607	94-1-2-F5B	-1-2-F5B sample=3m, water=1m			No water leakage after 24 hour		
* * values for single-mode	e fibres, all d	optical measu	rements perform	ned at 1550 nm	, * At room te	emperature 23°C ± 2°C		
Min. bending radius	mm	Without Tension 15 x Cable-Ø			Und	Under Maximum Tension 25 x Cable-Ø		
Temperature range	°C	Inst	Installation Transport. & S			Operation		

-10 to +40

-30 to +60



JN-SM-LRE XS n x12



Optical Characteristics

See the attached cabled optical fibre data sheet C17 for G657A1 or datasheet C24 for G657A2.

Identification

Fibre Colours

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

Tube colouring

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

Sheath Marking:

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

Cogas Kabel 96v Mini-GVK ITU-T G.657.Ax DRAKA(DL)[year] IDno:[12345] - [length]m

n = Fibre Count
x is 1 or 2

Logistic

Packing:

Plastic or Plywood Drums with protection.

Delivery Lengths:

Standard delivery length is 4km, 6 km $\,$ with a tolerance of $\,$ - 1% / + 3%

Article numbers:

96xG.657A2: 60049

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