LMCC 12 A1 1X12 HDPE

Mikrokabel mit HDPE Mantel, 12 Fasern, A-DQ(ZN)2Y HDPE, G.657.A1

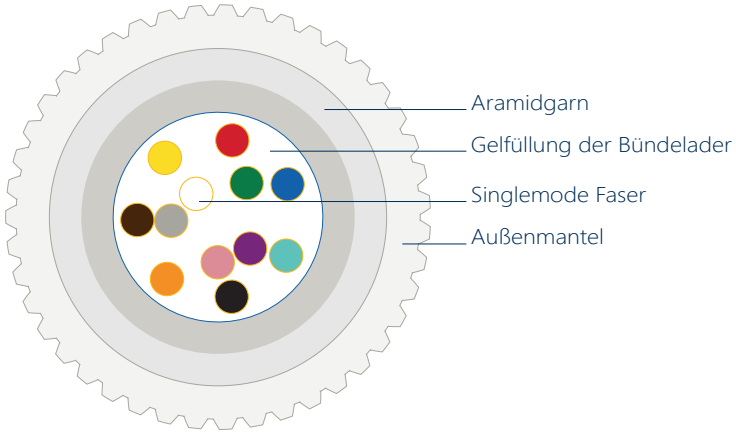
Features

- Kabeldurchmesser optimiert für 7/4 Rohrsysteme
- Singlemode, biegeunempfindliche G.657A1 Faser
- Aussenmantel besteht aus gerilltem HDPE (High Density Poly-ethylen)
- Metrierung am Kabel, inkl. Beschreibung via Inkjetdruck
- Kabel mit Wasserabweisenden Gel gefüllt
- Metallfreie Konstruktion
- Einblasfähig in Mikrorohrsysteme
- Geeignet für Anwendungen im Aussenbereich
- UV Beständig nach ISO 4892/2
- Zugentlastung durch Aramidgarn



Color Code of the Fiber

1	2	3	4	5	6
Red	Green	Blue	Yellow	White	Grey
7	**8**	**9**	**10**	**11**	**12**
Brown	Violet	Aqua	Black	Orange	Pink



Dimensions and Descriptions

Item	contents	Value
Fiber	Number	12
Loose Tube	Diameter	1.8±0.2
Outer sheath	Material	HDPE
	Color	Black
	Thickness(mm)	Approx 0.2
Cable diameter (mm) Approx.		2.3 ±0.2
Cable weight (kg/km) Approx.		3.5±1.0

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Mechanical Performance of Cable			
Tensile performance (N)		**Crush (N/100mm)**	
Short term	Long term	Short term	Long term
1.0G	0.15G	200	100

Mechanical, Physical and Environmental Test Characteristics		
Remark: "No attenuation changes" is considered as the attenuation changes ≤ 0.05 dB		
Items	**Test Method**	**Requirements**
Tensile performance	IEC 60794-1-2-E1 Load: 1.0G Cable length under tension: Not less than 50m. Duration of load sustain: 1min. Velocity of transfer device: 10mm/min	The maximum increase in attenuation less than 0.1 dB . The maximum fiber strain less than 0.6% under maximum tensile short term load. No change in attenuation after test at 1550nm. Under visual examination without magnification, no damage to the sheath or to the cable elements after test.
Crush	IEC 60794-1-2-E3 Load: 200N Duration of load: 1min	No change in attenuation after test at 1550nm. Under visual examination without magnification, no damage to the sheath or to the cable elements. The imprint of the striking surface on the sheath is not considered mechanical damage.
Bend	IEC 60794-1-2-E11A Mandrel radius: 10 times cable diameter Turns: 10 Cycles: 5	No change in attenuation at 1550nm after test. Under visual examination without magnification, no damage to the sheath or to the cable elements.
Repeated bending	IEC 60794-1-2-E6 Bending radius: 20 times cable diameter Cycles: 25 Load: 25N Duration of cycle: Approximately 2s	No change in attenuation at 1550nm after test. Under visual examination without magnification, no damage to the sheath or to the cable elements.
Torsion	IEC 60794-1-2-E7 Cycles: 5 Length under test: 1m Turns: ±180° Load: 0.5G*W	The variation on attenuation for each fiber less than 0.1dB at 1550nm Under visual examination without magnification, no damage to the sheath or to the cable elements. No permanent change in attenuation after test
Temperatur cycling	IEC 60794-1-2-F1 Sample length: at least 1000m Temperature range: -20°C to +70°C Cycles: 2 Temperature cycling test dwell time: 12 hours	No change in attenuation coefficient at 1550nm after test.
WaterPenetration	IEC 60794-1-2-F5B Time: 24 hours Sample length: 3m Water height: 1m	No water leakage
Compound flow	IEC 60794-1-2-E14 Sample count: 5 Sample length: 300±5 mm, Remove length: 130±2,5 mm, Time: 24h	No filling compound dripped.
Jetting Performance	Conform to IEC 60794-5-10	
Other parameters	Conform to IEC 60794	

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