LTMC 144 A1CH6X24PA 2

Minikabel mit PA Mantel, 144 Fasern, A-DQ(ZN)4Y PA, G.657.A1, CH

Features

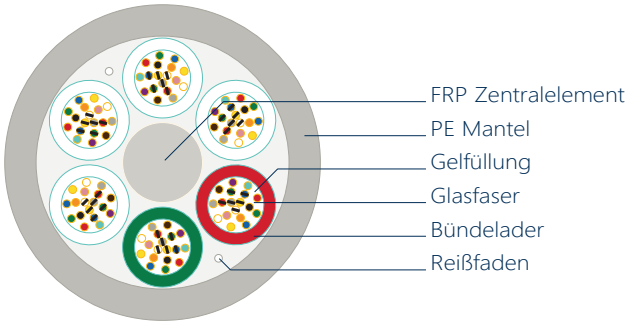
- Singlemode, biegeunempfindliche G.657A1 Faser
- Aussenmantel besteht aus Polyamid - bessere Einblaseigenschaften als HDPE durch höhere Festigkeit
- Metrierung am Kabel, inkl. Beschreibung via Inkjetdruck
- Faserbündel mit Wasserabweisenden Gel gefüllt
- Metallfreie Konstruktion
- Einblasfähig in Mikrorohrsysteme
- 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
13	**14**	**15**	**16**	**17**	**18**
Red w/ black ring	Green w/ black ring	Blue w/ black ring	Yellow w/ black ring	White w/ black ring	Grey w/ black ring
19	**20**	**21**	**22**	**23**	**24**
Brown w/ black ring	Violet w/ black ring	Aqua w/ black ring	Natural w/ black ring	Orange w/ black ring	Pink w/ black ring

DIN Color Code of the Loose Tube and Filler ≤12 Tubes

1	2	3	4	5	6
Red	Green	White	White	White	White



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Dimensions and Descriptions		
Item	**contents**	**144**
Loose Tube	Number	6
	Outer diameter ±0.1mm	1,7
Filler	Number	-
Fiber counts per Tube		24
Fiber type		G657A1 200um
Central strength member	Material	FRP
	Diameter (mm)	1,8
	Diameter of PE lay	-
Outer sheath	Material	PA12
	Color	Black
	Thickness (mm)	Approx.0.45
Cable diameter(±0.2mm)		6,1
Cable weight (kg/km) Approx.		32
Max. tensile strength (N)		1000
Crush (N/100mm)		Short term: 500 Long term: 200

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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: according to short term tensile described 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 0.1dB. 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: 500N 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: Ø 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: 40N	The variation on attenuation for each fiber less than 0.05dB 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: -30°C+70°C Cycles: 2 Temperature cycling test dwell time: 12 hours	There is no change in attenuation coefficient at 1550nm after the 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.
Other parameters	According to IEC 60794 ,YD/T 1460.4-2006	

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