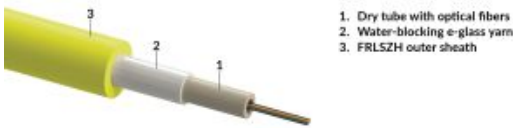


Central loose tube, gel-free cable, RP-rodent protected, indoor-use, FRLSZH sheath - yellow, B2ca, 01 x 12 fibers G657A1



DESCRIPTION

Rodent protected, non-metallic and dry central loose tube cable for up to a maximum of 24 fibers for indoor duct installation.

PRODUCT_IMAGE

TECHNICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Cable family code	IFEF FiRis
Cable type	Central loose tube cable
Cable version	Gel-free installation cable
Cable application	indoor use
CPR classification	B2ca-s1a,d0,a1
DoP number	D9082
Fiber type	G.657.A1
Fiber count	12
Fiber color coding	1.-12.: red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink13.-24.: red, green, blue, yellow, white, grey, brown, violet, turquoise, natural, orange, pink(ring-marked)
Fiber count per tube	24
Loose tube count	1
Loose tube diameter	2.4 mm
Armor	Rodent protection
Outer sheath thickness	0.9 mm
Outer sheath material	FRLSZH
Outer sheath color	yellow
Cable outer diameter	5.4 mm
Cable weight	32.0 kg/km / 21 lbs/1000ft
DIN / VDE 0888 code	J-B(ZN)H
CPR test method	EN 50575, EN 13501-6
Standard put-up length on drum	2100 m ± 5%
CPR classification	B2ca

MECHANICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
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Installation tensile strength	1000 N (5 min.)
Installation tensile strength acceptance criteria	$\Delta\alpha \leq 0,05$ dB after test
Installation tensile strength test method	IEC 60794-1-21:E1A
Crush resistance long term	500 N/100mm (15min)
Long-term crush resistance acceptance criteria	$\Delta\alpha \leq 0,05$ dB prior release, no damage
Long-term crush resistance test method	IEC 60794-1-21:E3A
Short-term crush resistance	1000 N/100mm
Short-term crush resistance acceptance criteria	$\Delta\alpha \leq 0,05$ dB after release, no damage
Short-term crush resistance test method	IEC 60794-1-21:E3A
Impact resistance	5 Nm, 3 impacts, d=20 mm, R=12,5 mm
Impact resistance acceptance criteria	no fiber breakage
Impact resistance test method	IEC 60794-1-21:E4
Torsion	L = 1 m, rotation angle $\pm 180^\circ$, 10 cycles, F= 20N
Torsion acceptance criteria	no fiber breakage
Torsion test method	IEC 60794-1-21:E7
Kink	d=20 x cable diameter
Kink acceptance criteria	no kink
Repeated bending	R=10 x cable diameter, 25 cycles, m = 4Kg
Repeated bending acceptance criteria	no damage
Repeated bending test method	IEC 60794-1-21:E6
Cable bend	R=20 x cable diameter, 6 turns, 10 cycles
Cable bend acceptance criteria	no fiber breakage
Cable bend test method	IEC 60794-1-21:E11A
Minimum bend radius in service	85 mm
Minimum bend radius during installation	110 mm

ENVIRONMENTAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Temperature cycling	-20 °C +60 °C / -4 °F +140 °F
Temperature cycling acceptance criteria	$\Delta\alpha \leq 0,05$ dB
Temperature cycling test method	IEC 60794-1-22:F1
Reversible temperature cycling	-25 °C +60 °C / -13 °F +140 °F
Reversible temperature cycling acceptance criteria	$\Delta\alpha \leq 0,15$ dB, reversible
Reversible temperature cycling test method	IEC 60794-1-22:F1
Operation temperature	-20 °C to +60 °C / -4 °F to +140 °F
Storage / Transport temperature	-25 °C to +60 °C / -13 °F to +140 °F
Thermal load	0.48 MJ/m