

Central loose tube, gel-free cable, RP-rodent protected, indoor-use, FRLSZH sheath - heather violet, B2ca, 01 x 12 fibers OM4



1. Dry tube with optical fibers
2. Water-blocking e-glass yarn
3. FRLSZH outer sheath

## DESCRIPTION

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

030.6309.d.en / similar product

## 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	OM4
Fiber count	12
Fiber color coding	1.-12.: red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink 13.-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 mm
Outer sheath material	FRLSZH
Outer sheath color	heather violet
Cable outer diameter	5.4 mm mm mm
Cable weight	32.0 kg/km / 21 lbs/1000ft
DIN / VDE 0888 code	J-B(ZN)H wbg
CPR classification	B2ca

## MECHANICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
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 mm mm mm
Minimum bend radius during installation	110 mm mm mm mm 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	0.4800000000 MJ/m