Data sheet R870419

Central loose tube, gel-free cable, iRP-increased rodent protected, universal-use, UV.FRLSZH sheath - heather violet, Cca, 01 x 12 fibers OM4

1. Gel free (dry) PBT loose tube with optical fibers
2. Water-blocking e-glass yarn
3. Rip-cords (diametral positioned)
4. UV-stable FRLSZH outer sheath

DESCRIPTION

Central loose tube cable (CLT) for up to a maximum of 12 fibers. Non-metallic, intensified rodent protected (IRP) and gel-free (dry) for indoor or outdoor duct installation (universal-use).

PRODUCT_IMAGE

TECHNICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Cable family code	UTd1GF FiRis
Cable type	Central loose tube cable
Cable version	Gel-free installation cable
Cable application	universal use
CPR classification	Cca-s1a,d0,a1
DoP number	D9088
Fiber type	OM4
Fiber count	12
Fiber color coding	1.-12.: red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink
Fiber count per tube	12
Loose tube count	1
Loose tube diameter	2.8 mm
Armor	Rodent protection
Outer sheath thickness	1.2 mm
Outer sheath material	UV stable FRLSZH
Outer sheath color	heather violet
Cable outer diameter	6.8 mm
Cable weight	32.0 kg/km / 21 lbs/1000ft
DIN / VDE 0888 code	U-BQ(ZN)BH
Warranty	R&Mfreenet
CPR classification	Cca
Minimum bending radius	no tension - 10 x cable diameter

MECHANICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
In-service tensile strength	1000 N
In-service tensile strength acceptance criteria	$\Delta\alpha \leq 0{,}05$ dB

In-service tensile strength test method	IEC 60794-1-21:E1
Installation tensile strength	2000 N
Installation tensile strength acceptance criteria	Δα ≤ 0,05 dB after test
Installation tensile strength test method	IEC 60794-1-21:E1
Crush resistance long term	2000 N/100mm
Long-term crush resistance acceptance criteria	Δα ≤ 0,05 dB prior release, no damage
Long-term crush resistance test method	IEC 60794-1-21:E3A
Short-term crush resistance	4000 N/100mm
Short-term crush resistance acceptance criteria	Δα ≤ 0,05 dB after release, no damage
Short-term crush resistance test method	IEC 60794-1-21:E3A
Impact resistance	10 Nm, 3 impacts, d=20 mm, R=300 mm
Impact resistance acceptance criteria	Δα ≤ 0,05 dB after test, no damage
Impact resistance test method	IEC 60794-1-21:E4
Torsion	L = 1 m, rotation angle ±180°, 10 cycles
Torsion acceptance criteria	no damage
Torsion test method	IEC 60794-1-21:E7
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	d=20 x cable diameter, 4 turns, 3 cycles
Cable bend acceptance criteria	Δα ≤ 0,05 dB after test, no damage
Cable bend test method	IEC 60794-1-21:E11A
Minimum bend radius in service	100 mm
Minimum bend radius during installation	140 mm

ENVIRONMENTAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Temperature cycling	-20 °C +70 °C / -4 °F +158 °F
Temperature cycling acceptance criteria	Δα ≤ 0,05 dB
Temperature cycling test method	IEC 60794-1-22:F1
Reversible temperature cycling	-25 °C +70 °C / -13 °F +158 °F
Reversible temperature cycling acceptance criteria	Δα ≤ 0,15 dB, reversible
Reversible temperature cycling test method	IEC 60794-1-22:F1
Operation temperature	-20 °C to +70 °C / -4 °F to +158 °F
Storage / Transport temperature	-25 °C to +70 °C / -13 °F to +158 °F
Water penetration	L = 3 m, h = 1 m, 24 h
Water penetration acceptance criteria	no water leakage
Water penetration test method	IEC 60794-1-22:F5B
Thermal load	0.63 MJ/m
Flammability vertical single cable	Pass
Flammability vertical single cable test method	IEC 60332-1-2
Smoke density	Pass
Smoke density test method	IEC 61034-2
Halogen free, acid gases	Pass
Halogen free, acid gases test method	IEC 60754-2
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