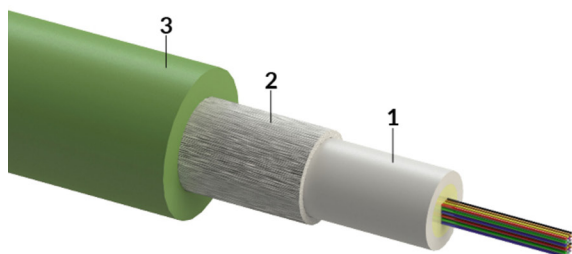


## Central loose tube cable, universal-use, no armour, FRLSZH sheath - green, Dca, 01x12-fibers G657.A1



1. Gel filled PBT loose tube with optical fibers
2. Water-blocking e-glass yarn
3. FRLSZH UV stable outer jacket

030.6309.B.1/ similar product

PRODUCT-NO	PRODUCT CODE
R855561	CLT-D01x2.3-QEONS-N1H_U-SDNF-01x12-S7-gn
CABLE TYPE	CABLE VERSION
Central loose tube cable	n.a
CABLE APPLICATION	DIN/VDE CODE
universal-use	U-DQ(ZN)H wbg
CPR CLASSIFICATION	DOP NO.:
Dca-s2,d1,a1	D9012

### GENERAL DESCRIPTION

Rodent protected, non-metallic central loose tube cable for up to a maximum of 12 fibers for indoor or outdoor duct installation.

### TECHNICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Fiber type	G.657.A1
Fiber count	12
Loose-tube count	1
Loose tube nominal diameter	2.3
Outer jacket nominal thickness	1
Cable outer diameter	5.2
Cable informative weight	33.0 kg/km / 22 lbs/1000ft
Standard put-up length on drum	2100/m ± 5%
Outer jacket material	UV stable FRLSOH
Jacket colour	green
Sheath marking	Ink-Jet, black
Fiber Color Code (IEC 60304)	1.-12.: red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink

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### MECHANICAL DATA

DESCRIPTION	TEST METHOD	VALUE / VALUE RANGE	ACCEPTANCE CRITERIA
Tensile performance - in service	IEC 60794-1-21:E1	300 N	$\Delta\alpha \leq 0,05$ dB
Tensile performance - during installation	IEC 60794-1-21:E1	1000 N	$\Delta\alpha \leq 0,05$ dB after test
Crush resistance - long term	IEC 60794-1-21:E3A	1000 N/100mm	$\Delta\alpha \leq 0,05$ dB prior release, no damage
Crush resistance - short term	IEC 60794-1-21:E3A	2000 N/100mm	$\Delta\alpha \leq 0,05$ dB after release, no damage
Impact resistance	IEC 60794-1-21:E4	10 Nm, 3 impacts, d=20 mm, R=300 mm	$\Delta\alpha \leq 0,05$ dB after test, no damage
Torsion	IEC 60794-1-21:E7	L = 1 m, rotation angle $\pm 180^\circ$ , 10 cycles	no damage
Kink	IEC 60794-1-21:E10		
Cable bend - no tension	IEC 60794-1-21:E11A	d=20 x cable diameter, 4 turns, 3 cycles	$\Delta\alpha \leq 0,05$ dB after test, no damage
Repeated bending	IEC 60794-1-21:E6	R=20 x cable diameter, 25 cycles	no damage

### CLIMATICAL DATA

DESCRIPTION	TEST METHOD	VALUE / VALUE RANGE	ACCEPTANCE CRITERIA
Temperature cycling	EN 60794-1-22:F1	-30 °C +70 °C / -22 °F +158 °F	$\Delta\alpha \leq 0,05$ dB
Temperature cycling - reversible	IEC 60794-1-22:F1	-35 °C +70 °C / -31 °F +158 °F	$\Delta\alpha \leq 0,15$ dB, reversible
Temperature range - in service		-30 °C to +70 °C / -22 °F to +158 °F	
Temperature range - during installation		-5 °C +50 °C / +23 °F +122 °F	
Temperature range - in storage & transport		-35 °C to +70 °C / -31 °F to +158 °F	
Moisture resistance	EN 60794-1-22:F5B	L = 3 m, 1 m water height, 24 h	no water leakage

### FIRE PROPERTIES

DESCRIPTION	TEST METHOD	VALUE / VALUE RANGE
Flammability - vertical cable bundle	EN 60332-3-22 (cat. A)	Pass
Smoke density	EN 61034-1, EN 61034-2	Pass
Halogen free, acid gases	EN 60754-2	Pass
RoHS		Pass
Euro classification to CPR	EN 50575, EN 13501-6	Dca-s2,d1,a1