LIGHTWIN

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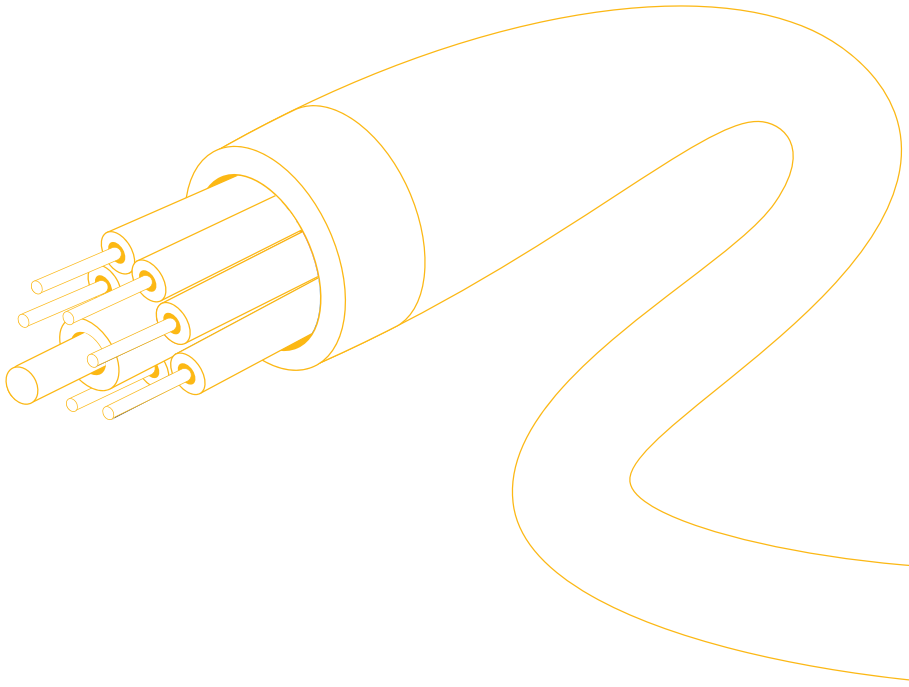


LU-DQ 24E09

UNIVERSAL FIBER CABLE
U-DQ (ZN) BH, LSZH

MULTI LOOSE TUBE NON-METALLIC CABLE
FOR INDOOR OR OUTDOOR DUCT INSTALLATION.

engineered in austria

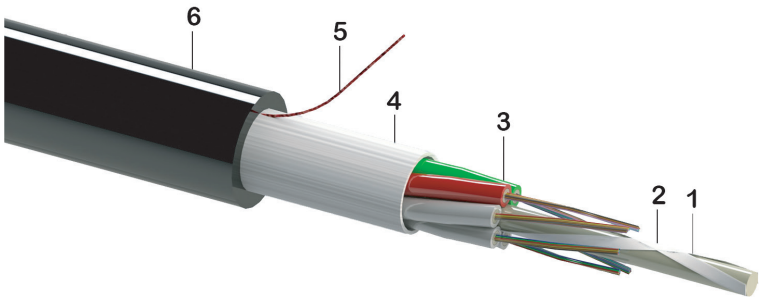
LU-DQ 24E09
Universal Cable, 24 Fibers, U-DQ (ZN) BH, LSZH, G657A

Features

- Universal fiber cable U-DQ (ZN) BH, LSZH
- Metal free, rodent protected, UV- stable, halogen free, loose tube; 250µm- fiber coating, color: Black
- Singlemode 9/125µm OS2 G657A
- Tension: 1600N
- Bending radius: 150mm
- Suitable for cable duct systems, pipe systems, cable plus, and many more
- Cable outer diameter: 7,4mm

Description

1. FRPc central stength member
2. Water wellabley arn
3. Gel filled PBT loose tube with optical fibers
4. Water swellable tape or yarn
5. Rip-cord
6. FRLSZH UV stable outer jacket



Cable General Description
Multi Loose Tube non-metallic cable for indoor or outdoor duct installation.

Construction and Dimensions	
Max. fiber count (12 fibers/tube)	24
Loose-tubes count	2
Filler-tubes	4
Loose tube nominal diameter (mm)	1,7
FRP/coat. CSM nominal thickness (mm)	1,7
Outer jacket nominal thickness (mm)	1,2
Cable nominal outer diameter (mm)	7,8
Cable informative weight (kg/km)	70
Standard put-up length (m)	2100 / 4100±5%

Outer Jacket	
Material	UV stable FRLSZH
Jacket colour	Black. Other colours available on request
Sheath marking	Ink-Jet, white or black depending on the jacket colour
Print legend	Construction name, cable type, batch-number, meter-marking, CE marking, Customer print legend available on request

Optical Fibers	
Colour coding (IEC 60304)	1.-12.: red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink
Loose-tube colour coding	1.red, 2.green (in each layer), rest of tubes white (fillers uncoloured or black)
Fiber type	Single- and multi-mode fibers (OS2, OM2, OM3, OM4, OM5)

All names and symbols mentioned here are property of the respective manufacturer.
Printing errors, changes & errors excepted.

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Universal Cable, 24 Fibers, U-DQ (ZN) BH, LSZH, G657A

Mechanical Characteristics

Test	Test method	Value	Acceptance criteria*
Tensile performance	EN 60794-1-21:E1	800 N (long term) 2000 N (short term)	Δα ≤ 0,05 dB Δα ≤ 0,05 dB after test
Crush	EN 60794-1-21:E3A	1000 N/100mm (long term) 2000 N/100mm (short term)	Δα ≤ 0,05 dB prior release, no damage Δα ≤ 0,05 dB after release, no damage
Impact	EN 60794-1-21:E4	10 Nm, 3 impacts, d=20 mm, R=300 mm	Δα ≤ 0,05 dB after test, no damage
Repeated bending	EN 60794-1-21:E6	R=20 x cable diameter, 25 cycles	no damage
Torsion	EN 60794-1-21:E7	L = 1 m, rotation angle ±180°, 10 cycles	no damage
Bend	EN 60794-1-21:E11A	d=20 x cable diameter, 4 turns, 3 cycles	Δα ≤ 0,05 dB after test, no damage

Environmental characteristics

Test	Test method	Value	Acceptance criteria*
Temperature cycling	EN 60794-1-22:F1	-40°C - +70°C	Δα ≤ 0,05 dB
Temperature range of use		-5°C - +50°C -40°C - +70°C -40°C - +70°C	installation operation storage, transport
Moisture resistance	EN 60794-1-22:F5B	L = 3 m,1 m water height, 24 h	no water leakage

** EN 60794-3-10, EN 60794-3-11*

Fire performance		
Flammability - 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
Euro classification to CPR	EN 50575, EN 13501-6	Eca

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

Color Code of Tubes

1	2
Red	Green

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