

U-DQ(ZN)H(SR)H

Fibre optic cable

70 °C service temperature, multitube, corrugated steel tape armoured, fire resistant, UV and weather resistant
IEC 60794, ITU-T

Application

Universal, fire resistant fiber optic cable with corrugated steel tape armouring, rodent proof, for use as termination and connection cable in wide area and local area networks. For fixed installation indoors and outdoors, in ducts or conduits, in dry and wet locations. Suitable for direct ground installation without protection.

Construction



- | | |
|-----------------------|---|
| 1. Strength elements: | Central Element |
| 2. Fiber: | Optical fibers* |
| 3. Tube: | Loose tube, dry
Up to 24 optical fibers (4, 6, 8, 12, 16, 24) colour-coded
Filler elements, if needed |
| 4. Strength elements: | Fiberglass reinforcements, waterblocking |
| 5. Ripcord | |
| 6. Inner sheath: | Zero halogen compound |
| 7. Armouring: | Corrugated steel |
| 8. Ripcord | |
| 9. Outer sheath: | Zero halogen compound, black (other colours on request) |

Technical information

*Fiber quality	Singlemode	ITU-T G.652.D, G.655, G.657
	Multimode	ITU-T G.651: OM2, OM3, OM4
Operating temperature	fixed installation	-30 °C to 70 °C (IEC)
Installation temperature		-10 °C to 50 °C
Min. bending radius mm	during installation	20 x outer diameter in mm
	during operation	15 x outer diameter in mm
Max. tensile load	during installation	IEC 60794-1-21 E1: 1800 N
	during operation	IEC 60794-1-21 E1: 1000 N
Crush resistance		IEC 60794-1-21 E3: 3000 N/dm
Safety parameters		
Reaction to fire		EN 50399 C _{ca} s1b, d2, a1
Flame spread	single cable	IEC 60332-1-2
	bunched cables	IEC 60332-3
Zero halogen		IEC 60754-1 /-2
Smoke density		IEC 61034-2
Fire resistant		IEC 60331-25, 90min
Additional parameters		
Water penetration		IEC 60794-1-22 F5B
Impact resistance		IEC 60794-1-21 E4: 5 J
Mechanical and environmental tests		IEC 60794-1-21 /-22

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Fibres	1-12	16	24	32	36	48	64	72	96	144
Fibres per tube	12	8	12	8	12	12	8	12	12	12
Total/Active tubes	6/1	6/2	6/2	6/4	6/3	6/4	8/8	6/6	8/8	12/12
kg/km	218	218	219	219	219	220	250	222	252	348
Outer diam. Ø	14,0	14,0	14,0	14,0	14,0	14,0	15,5	14,0	15,5	18,0

Fibres colour code: Red - Green - Blue - Yellow - Grey - Violet - Brown - Orange - White - Pink - Black - Turquoise.
Tubes colour code: Red – Green – Natural - ... - Natural. Passive tubes black colour

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.