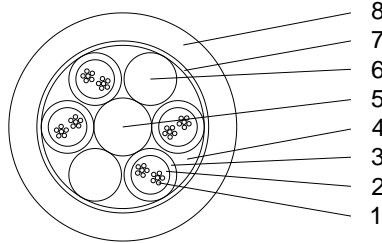


## INDOOR-OUTDOOR CABLE U-DQ(ZN)BH



1. Optical fibres	2. Jelly filling	3. Tube	4. Dry core
5. FRP rod	6. Filler	7. Strength members	8. Sheath

Application	Universal non-metallic optical fibre cable for both indoor and outdoor applications (duct installation).	
Construction	Optical fibres	Coloured single-mode fibres according to the ITU-T G.652.D.
	Secondary coating	Jelly filled loose tubes made of thermoplastic polyester.
	Fillers	Plastic fillers when applicable.
	Central strength member	Glass fibre reinforced plastic (FRP).
	Cable core stranding	The secondary coating tubes and fillers (when needed) are SZ-stranded around the central strength member.
	Strength members	Single layer of E-glass yarns under the sheath for tensile strength and rodent protection.
	Rip cord	A non-metallic rip cord is applied under the sheath.
Outer sheath	Flame retardant, halogen free and UV resistant plastic (LSZH). Colour of the sheath is yellow. Nominal sheath thickness is 1,2 mm.	
Sheath marking	Marking printed on the sheath at one meter interval: Nestor Cables - cable type - lot number - year of manufacture - length marking	
Standard references	Test methods	IEC 60794-1-2x
	Flame retardant	IEC 60332-1
	Halogen free	IEC 60754-2
	Reaction to fire	EN50575:2014+A1:2016 class Dca -s2,d2,a2



Maximum cabled fibre attenuation					
Wavelength	1310	1383	1550	1625	nm
Attenuation	0,36	0,36	0,22	0,24	dB/km

Nominal dimensions						
Fibres		Diameter [mm]		Weight [kg/km]	Minimum bending radius [mm]	
Count	Grouping	Loose tube	Cable	Cable	Dynamic	Static
4	1x4	1,5	7,8	63	160	80
12	1x12	1,5	7,8	63	160	80
24	2x12	1,5	7,8	63	160	80
36	3x12	1,5	7,8	63	160	80
48	4x12	1,5	7,8	63	160	80
72	6x12	1,5	7,8	63	160	80
96	8x12	1,5	8,5	78	160	80

Cable core lay up			
Fibres	Tubes	Fillers	Colour of the tubes
4	1	5	red
12	1	5	red
24	2	4	red, green
36	3	3	red, green, blue
48	4	2	red, green, blue, yellow
72	6	0	red, green, blue, yellow, white, grey
96	8	0	red, green, blue, yellow, white, grey, brown, violet
Colour of the fibres			red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink
Colour of the fillers			natural
Colour coding standard			DIN/VDE 0888

Cable characteristics			
Max. tension		4 – 72F	96 F
	Short term during installation, fibre elongation $\leq 0,33\%$ .	1700 N	2000 N
	Long term, fibre elongation $\leq 0,2\%$ .	1000 N	1200 N
Crush	Operation: With 100 mm plate, no change ( $\geq 0,05$ dB) in attenuation during test.	1000 N	
Bending radius	During installation (dynamic)	20 x Diameter	
	Final installation (static)	10 x Diameter	
Impact	Impact head diameter 50 mm, radius 300 mm	2 J, one impact	
Torsion	- Number of turns	$\pm 1$ , (length 1000 mm)	
Temperature range	Operation, storage, transport	-40 to +70 °C	
	Installation	-15 to +60 °C	
Water penetration		< 3 m, 24 h	
Reaction to fire	- EN50575:2014+A1:2016	Dca -s2,d2,a2	

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