

# XDG50

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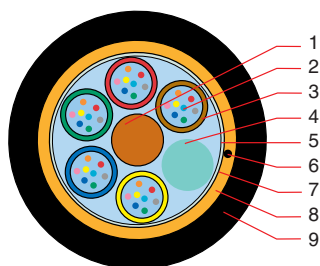
DIN: A/I-DQ(ZN)BH



## Stranded, multitube, indoor/outdoor non-metallic armour fibre optic cable

### Applications

Outdoor fibre optic cable for ducts and trays applications



### Design

1. FRP central element
2. optical fibres
3. jelly filled tube(s)
4. filling element(s)
5. swellable elements
6. ripcord (optional)
7. plastic tape
8. glass yarn strength elements
9. halogen-free, flame-retardant outer sheath

### Product description

Structure designed to fit up to 24 tubes stranded around a central strength element. Depending on the fibres/tubes count, tube(s) may be replaced by filling element(s). Each jelly filled tube may include up to 12 optical fibres. Longitudinal water-tightness is ensured by swellable elements. A layer of helically stranded glass yarns is applied for non-metallic armouring. This layer also provides additional tensile strength.

The black halogen-free, flame-retardant outer sheath is suitable for indoor and outdoor applications. The cable meets the following standards:

- flame propagation test:  
IEC 60332-1, EN 60332-1  
IEC 60332-3-24, EN 50266-2-4
- smoke test (smoke density):  
IEC 61034-1/2, EN 61034-1/2
- corrosive gases test:  
IEC 60754-2, EN 50267-2-3



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## Technical data

<b>XDG50 (A/I-DQ(ZN)BH)</b>													
Fibre count (*)	24	36	12	24	36	48	60	72	96	120	144	192	288
Number of tubes	4	6	1	2	3	4	5	6	8	10	12	16	24
Number of fibres per tube	6	6	12	12	12	12	12	12	12	12	12	12	12
Number of fillers (dummies)	1		4	3	2	1							
Tube outer diameter (mm)	2,1	2,1	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3
Cable diameter (approx.) (mm)	10,0	11,0	11,0	11,0	11,0	11,0	11,0	12,0	13,0	14,5	15,5	15,5	19,0
Outer sheath thickness (mm)	1,5												
Linear weight (approx.) (kg per km)	100	110	110	110	110	110	110	135	155	190	225	200	305
Max. tensile strength (**)													
- short term (installation) (N)	2.200	2.900	2.900	2.900	2.900	2.900	2.900	4.300	4.600	5.000	5.500	4.600	9.300
- long term (operation) (N)	1.400	1.800	1.800	1.800	1.800	1.800	1.800	2.700	2.800	3.100	3.400	2.800	5.800
Calorific potential (MJ)	1,7	1,9	1,9	1,9	1,9	1,9	1,9	2,2	2,7	3,2	3,7	4,3	6
Manufacturing length (max.) (km)	8	8	8	8	8	8	8	8	8	8	6	6	4
Crush resistance (N/10cm)	3.000												
Bending radius (minimum)													
- under load	15 x cable diameter												
- without load	10 x cable diameter												
Temperature range													
- storage (°C)	- 40 to + 70												
- installation (°C)	- 5 to + 50												
- operation (°C)	- 30 to + 70												
Tested according to	IEC 60794-1												

(\*) other fibre counts are available on request

(\*\*) higher tensile strength is available on request

## Marking

"EUPEN + fibre count/fibre type + meter marking"