

ID5C5

1/2

VDE Code: I-DQ(ZN)H(SR)H

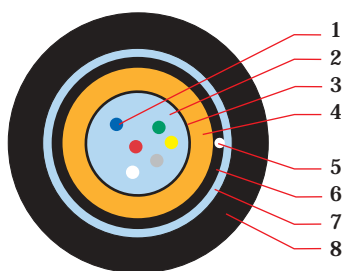


Armoured fibre optic cable with functional integrity E30

Applications and features

Safety cable for indoor and outdoor use in tunnels, undergrounds or other applications where functional integrity under fire conditions is a must. Can be used in ducts or on cable trays.

- Corrugated steel tape armour for rodent protection
- Functional integrity 30 minutes for back-up links tested according to DIN 4102 part 12
- Halogen-free, flame-retardant outer sheath



Design

1. Optical fibres
2. Central tube
3. Swelling elements
4. Tensile elements
5. Rip cord
6. Inner sheath
7. Corrugated steel tape
8. Outer sheath

Product description

The colour-coded fibres are contained in a central loose tube. Tensile elements are placed uniformly around the tube to give the cable excellent mechanical strength. The corrugated steel tape armour, placed between the inner and the outer sheath, protects the cable from rodent attack and high compression forces.

We use our own proprietary low water-absorption HLFR (halogen-free, flame-retardant) sheath compound and this, plus the water-swellaable elements, ensures that this cable can be used also in external environments, including temporarily flooded ducts, as well as meeting the indoor fire-safety standards.



ID5C5

Mechanical Specifications

ID5C5		from 2 to 24
Number of fibres (*)		from 2 to 24
Tube diameter	(mm)	3.5
Cable diameter, approx.	(mm)	11.5
Outer sheath thickness	(mm)	1.5
Weight, approx.	(kg per km)	140
Max. pulling force during		
- installation	(N)	3.000
- operation	(N)	2.000
Crush resistance	(N/10cm)	3.000
Min. bending radius		
- with tensile load		25 x cable diameter
- without tensile load		20 x cable diameter
Temperature range		
- operation		- 10°C to + 60°C
- storage		- 20°C to + 70°C
Tested according to		IEC 60794-1
Flame-retardant according to		IEC 60332-1 & 60332-3-24
Halogen-free according to		IEC 60754-2
Low-smoke according to		IEC 61034-1/2
Functional integrity according to		DIN 4102 part 12

(*) other fibre numbers by request

Marking

"EUPEN + Product code + Fibre number/type + metric marking"

Lengths

Standard lengths: 1.000 m, 2.000 m or 4.000 m, +/- 2%

Engineered lengths: by request

