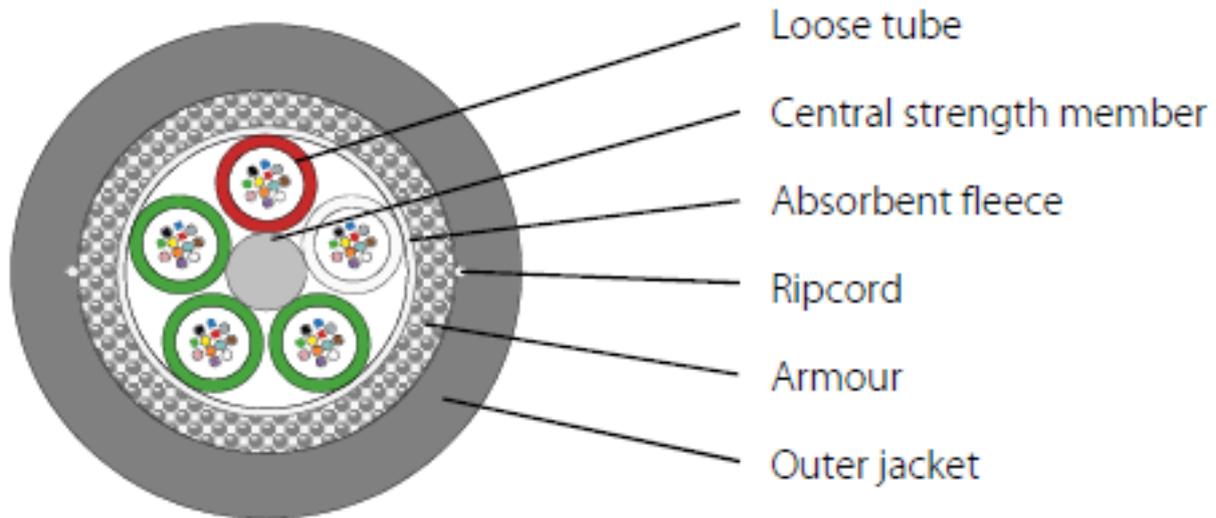


# DATASHEET

## INFRALAN® U-DQ(ZN)BHxx FRNC-C LSZH 4000N



### Specifications

#### Application:

- for fixed installation indoor and outdoor, in cable ducts, tubes and also suitable for interconnections
- mechanical installation by winch is permitted only when using force meters with recording function

#### Characteristics:

- universale cable
- Dry, longitudinally and transversely waterproof fiber optic cable with non-metallic rodent protection and for higher tensile force
- Good installation through ripcords to open the jacket
- non-metallic, halogenfree, gel free
- suitable for connector assembly

### Technical data

#### Loose tube:

- jelly filled loose tube
- outer diameter 2.3 mm with 2 to 12 optical fibres
- outer diameter 4.0 mm with 14-24 optical fibres
- Colour code fibres: red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink
- Colour code tubes: counting tube red, counting direction tube white, other tubes yellow (E9/125), green (G50/125), or blue (G62,5/125)

#### Armour:

- Multifunctional E-glass yarns, wrapped in two layers (left and right spin), as strain relief elements and nonmetallic rodent protection

#### Stranding:

- Loose tubes and if necessary fillers stranded around a central strength member (FRP). Strength member can be upcoated
- Wrapping with water absorbent fleece

#### Outer jacket:

- Halogen-free and flame-retardant material (FRNC-C)
- wall thickness approx. 1.5 mm
- Outer diameter see table on page 2
- Two diametrically opposed ripcords under the jacket
- Colour: black



Art.-No.	54xxx.1L_4000	File	54xxx.1L_4000.indd		
Description	Infralan® U-DQ(ZN)BHxx FRNC-C LSZH 4000N				
Created	Date	Last Revision	Date	Checked	Date
BF	26.08.2016	BF	26.08.2016	BF	26.08.2016

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## Technical data

### Standards:

- Flame retardant: IEC 60332-3-22 and IEC 60332-1-2
- Halogenfree: IEC 60754-1
- Acidity of the combustion gases: IEC 60754-2
- Low smoke: IEC 61034
- No resistance to oil, petrol, acid and leach

### Temperature Range:

- Operation: -40°C ~ 80°C
- Installation: - 20°C ~ 60°C

## Mechanical characteristics

Cable bend acc. IEC 60794-1-2 E11A	1 cycles, R = 10 x outer diam., n = 5 (windings)
Longitudinally watertight acc. IEC 60794-1-2 F5A	l = 3 m, t = 24 h
Max. tensile force acc. IEC 60794-1-2 E1, long term	4000 N
Max. crush resistance acc. IEC 60794-1-2 E3, long term	3000 N/dm, 10 min
Impact resistance acc. IEC 60794-1-2 E4	3 impacts, 1.5 Nm, R = 12.5 mm

## Order data

Nr.	Beschreibung	Beschreibung 2
54248.1L	U-DQ(ZN)BH 4x12G 50/125µ OM2	LSZH schwarz FRNC-C
54448.1L	U-DQ(ZN)BH 48E 9/125µ, G657A	LSZH schwarz FRNC-C
54496.1L	U-DQ(ZN)BH 96E 9/125µ, G657A	LSZH schwarz FRNC-C
54548.1L	U-DQ(ZN)BH 4x12G 50/125µ OM3	LSZH schwarz FRNC-C

## cable data

Construction	Fibres max.	Outer diam. [mm]	Weight [kg/km]	Min. Bending radius [mm]		Fire load [MJ/m]
				during installation	installed	
1 x m	12	11,2	130	230	170	1,7
2 x m	24	11,2	130	230	170	1,7
3 x m	36	11,2	130	230	170	1,7
4 x m	48	11,2	130	230	170	1,7
5 x m	60	11,2	130	230	170	1,7
6 x m	72	11,6	140	235	175	1,7
8 x m	96	13,1	175	265	200	2,2
12 x m	144	16,0	240	320	240	3,8

m = 2, 4, 6, 8, 10 or 12 fibres per loose tube



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