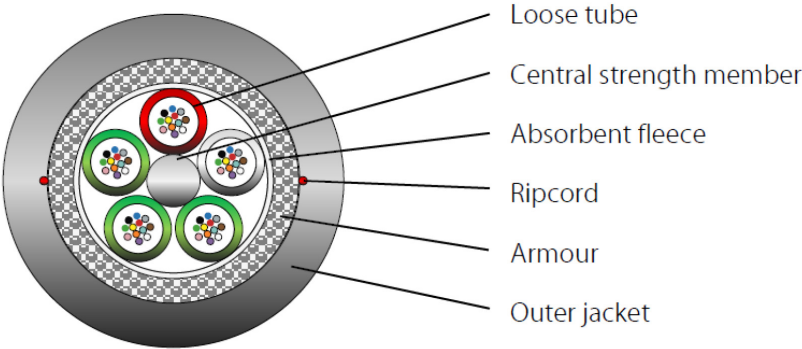


# DATASHEET

INFRALAN® U-DQ(ZN)BH OS2 48E (4x12) B2ca 5000N  
LSZH black 11.2mm G657A1



General data

**Application:**  
For fixed installation indoor and outdoor  
In cable ducts, tubes and interconnections  
Mechanical installation by winch is permitted only when using force meters with recording function  
Not suitable for underground laying (direct buried)

**Characteristics:**  
Universale cable  
Suitable for connector assembly

The cable diameter can vary

Allgemeine Daten

|                             |                |
|-----------------------------|----------------|
| UV resistance               | True           |
| Armouring                   | True           |
| Longitudinal water blocking | True           |
| Application                 | Inside/outside |
| Jacket Material             | LSZH           |
| With strain relief          | True           |
| Radial water blocking       | False          |

General data

|                     |       |
|---------------------|-------|
| Cable metal free    | True  |
| Colour outer sheath | black |

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|                   |                   |
|-------------------|-------------------|
| (Halogenfree)     | acc. EN 60754-1/2 |
| Blow in           | False             |
| Circuit integrity | False             |

## Mechanical characteristics

|                  |           |
|------------------|-----------|
| Crush resistance | 3000 N/dm |
|------------------|-----------|

## Mechanische Eigenschaften

|                           |          |
|---------------------------|----------|
| Longitudinally watertight | 3/24 m/h |
|---------------------------|----------|

### Kabelaufbau

|                |                     |
|----------------|---------------------|
| Fiber Colours  | orange              |
| Fiber marking  | Colour              |
| Fibre category | G657.A1             |
| Tube marking   | Colour              |
| Fibre type     | Single mode 9/125   |
| Type of tube   | Stranded loose tube |

### Cable sheath

|                 |                           |
|-----------------|---------------------------|
| Oil resistant   | No                        |
| Flame-retardant | According to EN 60332-1-2 |
| Low smoke       | acc. EN 61034-2           |

### Kabelmantel

|                        |       |
|------------------------|-------|
| Resistant to chemicals | False |
|------------------------|-------|

## Umgebungsbedingungen

|                                  |             |
|----------------------------------|-------------|
| Temperature Range (Operation)    | -40 - 80 °C |
| Temperature Range (Installation) | -5 - 60 °C  |
| Temperature Range (Storage)      | -40 - 80 °C |

## Transmission characteristics

|                                         |        |
|-----------------------------------------|--------|
| Rayleigh Backscatter Coefficient 1310nm | 1.4676 |
| Rayleigh Backscatter Coefficient 1550nm | 1.4682 |

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**INFRALAN® U-DQ(ZN)BH OS2 48E (4x12) B2ca 5000N  
LSZH black 11.2mm G657A1**

## Übertragungstechnische Eigenschaften

|                        |      |
|------------------------|------|
| IL max. (dB/km) 1550nm | 0.22 |
| IL max. (dB/km) 1310nm | 0.36 |

## Normen, Zulassungen, Zertifizierungen

|                        |                              |
|------------------------|------------------------------|
| Transmission standards | IEEE 802.3 10Mbit to 100Gbit |
| With rodent protection | True                         |

## Standards, approvals, certifications

|                                          |          |
|------------------------------------------|----------|
| Low smoke (according to EN 61034-2)      | True     |
| Harmonised Standard                      | EN 50575 |
| Halogen free (according to EN 60754-1/2) | True     |
| Oil resistant (acc. EN 60811-2-1)        | False    |

## Available variants

| ArtNr.          | Bezeichnung                                                                                  | CPR-Class | Cable<br>Ø | Category | Number<br>of<br>fibres | Tensile<br>force<br>max. | Aufbau                                   | Außendurchmesser<br>ca. | Biegeradius | VDE-Bezeichnung        | Gewicht      |
|-----------------|----------------------------------------------------------------------------------------------|-----------|------------|----------|------------------------|--------------------------|------------------------------------------|-------------------------|-------------|------------------------|--------------|
| 54408.3LOS2-CPR | INFRALAN®<br>U-DQ(ZN)BH<br>OS2 8E (1x8)<br>B2ca 5000N<br>LSZH black<br>11.2mm<br>G657A1      | B2ca      | 11.2<br>mm | OS2      | 8                      | 5000 N                   | 08E ( 1 x 8 )<br>Singlemode<br>G.657.A1  | 11,2 mm                 | 170 mm      | U-DQ(ZN)BH<br>8E9/125  | 136<br>kg/km |
| 54412.3LOS2-CPR | INFRALAN®<br>U-DQ(ZN)BH<br>OS2 12E<br>(1x12) B2ca<br>5000N LSZH<br>black<br>11.2mm<br>G657A1 | B2ca      | 11.2<br>mm | OS2      | 12                     | 5000 N                   | 12E ( 1 x 12 )<br>Singlemode<br>G.657.A1 | 11,2 mm                 | 170 mm      | U-DQ(ZN)BH<br>12E9/125 | 136<br>kg/km |
| 54424.3LOS2-CPR | INFRALAN®<br>U-DQ(ZN)BH<br>OS2 24E<br>(2x12) B2ca<br>5000N LSZH<br>black<br>11.2mm<br>G657A1 | B2ca      | 11.2<br>mm | OS2      | 24                     | 5000 N                   | 24E ( 2 x 12 )<br>Singlemode<br>G.657.A1 | 11,2 mm                 | 170 mm      | U-DQ(ZN)BH<br>24E9/125 | 136<br>kg/km |
| 54448.3LOS2-CPR | INFRALAN®<br>U-DQ(ZN)BH<br>OS2 48E<br>(4x12) B2ca<br>5000N LSZH<br>black<br>11.2mm<br>G657A1 | B2ca      | 11.2<br>mm | OS2      | 48                     | 5000 N                   | 48E ( 4 x 12 )<br>Singlemode<br>G.657.A1 | 11,2 mm                 | 170 mm      | U-DQ(ZN)BH<br>48E9/125 | 136<br>kg/km |

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