

Data Sheet for Article: HSFAIBH049

# FO Universal Cable A/I-DQ(ZN)BH 4x 9/125µm OS2, LSOH, Dca

nonmetallic rodent protection, black, 6mm, 1250N



## SCHRACK- Info

- For indoor- and outdoor- use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. Support of all computer network applications, e.g. FDDI, Gigabit Ethernet and ATM.
- Easy to install in ducts, tunnels and trenches.
- UV-resistant according to ISO 4892-2.

## FEATURES AND BENEFITS

- These cables are all dielectric and therefore immune to lightning and electromagnetic interference (EMC-safe), spark-free and requires no earthing.
- Rodent protection.
- Predicted lifetime  $\geq 30$  years.



## Technical Data

|                                                             |                                             |
|-------------------------------------------------------------|---------------------------------------------|
| Fibre count                                                 | 4                                           |
| Net diameter (mm)                                           | 5,80                                        |
| Diameter - Central tube (mm)                                | 3,30                                        |
| Primary coating (µm)                                        | 250 ± 15                                    |
| Net weight (kg)                                             | 0,04                                        |
| Suitable                                                    | Universal cable                             |
| Watertightness                                              | longitudinally watertight                   |
| Rodent protection                                           | Yes                                         |
| Predicted lifetime                                          | ≥ 30 Years                                  |
| Cable jacket                                                | LS0H                                        |
| Euroclass acc. to EN50575                                   | Dca                                         |
| Smoke production                                            | s2                                          |
| Droplets                                                    | d1                                          |
| Acidity                                                     | a1                                          |
| Temperature range - Transport/storage (°C)                  | -30 to +70                                  |
| Temperature range - Installation (°C)                       | -5 to +50                                   |
| Temperature range - Operation (°C)                          | -30 to +70                                  |
| Pulling tension - Operation (longterm) (N)                  | 420                                         |
| Pulling tension - Installation (shortterm) (N)              | 1250                                        |
| Bending radii cable - Operation (longterm) (Ø)              | 10 x Ø                                      |
| Bending radii cable - Installation (shortterm) (Ø)          | 20 x Ø                                      |
| Bending radii for fibres and tubes (mm)                     | ≥ 25                                        |
| Cable Max. Crush Resistance Operation (longterm) (N/m )     | 7500                                        |
| Cable Max. Crush Resistance Installation (shortterm) (N/m ) | 15000                                       |
| Mode-Field / Cladding diameter (µm)                         | 9,2 ± 0,4   125 ± 0,7                       |
| Wavelength (nm)                                             | 1310   1550   1625                          |
| Attenuation (dB/km)                                         | 0,33 / 0,34   0,18 / 0,19   0,20 / 0,24     |
| Dispersion (ps/nm-km)                                       | ≤ 3,2   ≤ 17                                |
| Ethernet performance 1GB (m)                                | ≥ 5000   -   ≥ 70000   -                    |
| Ethernet performance 10GB (m)                               | ≥ 10000   -   ≥ 40000   -                   |
| PMD (ps/km)                                                 | ≤ 0,06                                      |
| Cable Cutt-off-Wavelength (nm)                              | ≤ 1260                                      |
| Refractive Index                                            | 1,467   -   1,467   1,467                   |
| Fiber                                                       | 9/125 OS2 Singlemode / G.652.D and G.657.A1 |
| Colour                                                      | Black                                       |
| Diameter (mm)                                               | 6                                           |
| Min. ambient temperature (°C)                               | -30                                         |
| Max. ambient temperature (°C)                               | 70                                          |

## GUIDE TO INSTALLATION AND HANDLING

When laying and installing optical fibre cables it is vitally important not to exceed the specified values set for pulling tension, bending radii and temperature. The installation methods have to be in accordance with the common standards.

To ease insertion into tubes by means of compressed air or pulling wire, certified lubricants (e.g. paraffin) maybe used.

The use of soap or similar substances as lubricants is strictly prohibited.

If a cable needs to be fastened, constrictions  $\geq 0.3$  mm must be prevented.

The jelly filling inside the tubes can be removed using a tissue soaked in turpentine.

It is advisable to cap the cable-ends during storage.

## Article Table

| DESCRIPTION                                                                                                                                                    | Order No.  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| FO Universal Cable A/I-DQ(ZN)BH 4x 9/125µm OS2, LSOH, Dca<br>nonmetallic rodent protection, black, 6mm, 1250N                                                  | HSFAIBH049 |
| <b>Optional Accessories</b>                                                                                                                                    |            |
| FO Splicebox, 4 Fibers, LC, 9/125µm OS2, 19", 1U, Class B<br>acc. to IEC 61753-1, RAL7035, sliding, pigtails inserted and prepared ready for splicing, PREMIUM | HSELS049LG |
| FO Splicebox, 4 Fibers, SC, 9/125µm OS2, 19", 1U, Class B<br>acc. to IEC 61753-1, RAL7035, sliding, pigtails inserted and prepared ready for splicing, PREMIUM | HSELS049CG |
| FO Splicebox, 4 Fibers, FC, 9/125µm OS2, 19", 1U<br>RAL7035, sliding, pigtails inserted and prepared ready for splicing, PREMIUM                               | HSELS049FG |
| Back to back cable tie black 16mm x 4m                                                                                                                         | Q7KB0416-S |
| Back to back cable tie blue 16mm x 4m                                                                                                                          | Q7KB0416-B |
| Back to back cable tie red 16mm x 4m                                                                                                                           | Q7KB0416-R |
| Back to back cable tie yellow 16mm x 4m                                                                                                                        | Q7KB0416-Y |
| Back to back cable tie green 16mm x 4m                                                                                                                         | Q7KB0416-U |