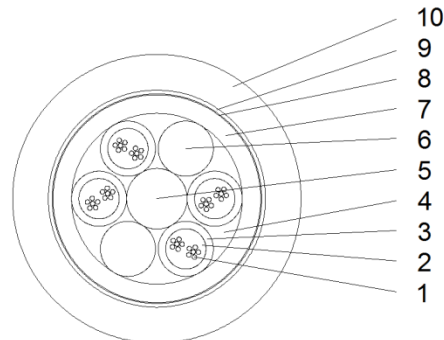


DIRECT BURIED CABLE FZOMRMU-SD DB



| | | | |
|-------------------|------------------|-----------------|---------------------|
| 1. Optical fibres | 2. Jelly filling | 3. Tube | 4. Dry core |
| 5. FRP rod | 6. Filler | 7. Inner sheath | 8. Strength members |
| 9. Rip cord | 10. Outer sheath | | |

| | | |
|--------------|---|---|
| Application | Rodent protected non-metallic optical fibre cable for direct buried installation. Suitable also for duct installation either by pulling or blowing. | |
| Construction | Optical fibres | Coloured single-mode fibres according to the ITU-T G.652.D. |
| | Secondary coating | Jelly filled coloured loose tubes made of thermoplastic polyester. |
| | Fillers | Plastic fillers when applicable. |
| | Central strength member | Glass fibre reinforced plastic (FRP). |
| | Cable core stranding | The secondary coating tubes and fillers (when needed) are SZ-stranded around the central strength member. |
| | Water blocking | Dry water blocking elements are applied to the cable core. |
| | Rip cord | A non-metallic rip cord is applied under the inner sheath. |
| | Inner sheath | UV resistant black polyethylene compound (LLDPE). Nominal sheath thickness is 1,0 mm. |
| | Strength members | A layer of E-glass yarns under the sheath for tensile strength and rodent protection. |
| | Rip cords | Two non-metallic rip cords are applied under the outer sheathing layers. |
| | Outer sheath | UV resistant black polyethylene compound (HDPE). Minimum sheath thickness is 1,3 mm. Nominal sheath thickness is 1,5 mm. |
| | Sheath marking | Marking printed on the sheath at one meter interval: Nestor Cables - cable type - lot number - year of manufacture - length marking |

| | | |
|---------------------|------------------|---|
| Standard references | Cable properties | IEC 60794-3-11 |
| | Test methods | IEC 60794-1-2x |
| | Halogen free | IEC 60754-2, EN 50267-2-1, EN 50267-2-2 |
| | Reaction to fire | EN50575:2014+A1:2016 class Fca |



| Maximum cabled fibre attenuation | | | | | |
|----------------------------------|------|------|------|------|-------|
| Wavelength | 1310 | 1383 | 1550 | 1625 | nm |
| Attenuation | 0,36 | 0,36 | 0,22 | 0,24 | dB/km |

| Nominal dimensions | | | | | | |
|--------------------|----------|---------------|-------|----------------|-----------------------------|--------|
| Fibres | | Diameter [mm] | | Weight [kg/km] | Minimum bending radius [mm] | |
| Count | Grouping | Loose tube | Cable | Cable | Dynamic | Static |
| 24 | 2x12 | 2,7 | 14,2 | 155 | 280 | 140 |
| 48 | 4x12 | 2,7 | 14,2 | 158 | 280 | 140 |
| 96 | 8x12 | 2,7 | 15,8 | 197 | 320 | 160 |

| Cable core lay up. | | | |
|------------------------|-------|---------|--|
| Fibres | Tubes | Fillers | Colour of the tubes |
| 24 | 2 | 4 | blue, white |
| 48 | 4 | 2 | blue, white, yellow, green |
| 96 | 8 | 0 | blue, white, yellow, green, grey, orange, brown, turquoise |
| Colour of the fillers | | | black or natural |
| Colour of the fibres | | | blue, white, yellow, green, grey, orange, brown, turquoise, black, violet, pink, red |
| Colour coding standard | | | FIN2012 |

| Preliminary Cable characteristics | | |
|-----------------------------------|---|----------------------------|
| Max. tension | -Fibre elongation $\leq 0,05\%$, change in att. $\leq 0,05$ dB | 3500 N |
| | -Fibre elongation $\leq 0,33\%$ | 7000 N |
| Crush strength | -With 100 mm plate | 5000 N |
| | -With 25 mm mandrel | 1200 N |
| Bending radius | - During installation (dynamic) | 20 x Diameter |
| | - Final installation (static) | 10 x Diameter |
| Impact | - Energy | 20 J, one impact |
| Torsion | - Number of turns | ± 1 , (length 2000 mm) |
| Temperature range | - Operation, storage, transport | -45 to +70 °C |
| | - Installation | -15 to +70 °C |
| Water penetration | | < 3 m, 24 h |
| Reaction to fire | - EN50575:2014+A1:2016 | Fca |

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