

## Mobile field cables



### Design

|                 |                        |
|-----------------|------------------------|
| Cable design    | 2, 4 and 8 tight tubes |
| Strain relief   | Aramide yarn           |
| Jacket material | TPU                    |
| Jacket colour   | black                  |

### Properties

- High tensile strength
- For direct connector assembly
- Excellent coiling capability
- High chemical resistance against acids and alkalis
- For high mechanical and thermal stability
- Halogen free and non-corrosive fire gases
- Improved crush resistance
- UV-protected, suitable for outdoor use
- Metal free
- Easy stripping
- High tensile strength, high abrasion and cut resistance

### Applications

- Fixed or mobile data cabling (MASTERLINE mobile)
- Data cabling for harsh environment
- Military tactical field use
- Field video broadcast
- Machine cabling, drag chains

According to IEC 60794-1-2

### Ordering information

02-.../FSN(ZN)Z-...56

04-.../FSN(ZN)Z-...56

08-.../FSN(ZN)Z-...68

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## Mobile field cables

| Specification                   |          |     |     |       |  |
|---------------------------------|----------|-----|-----|-------|--|
| Jacket Ø                        | 5.6      | 5.6 | 6.8 | mm    |  |
| Tube Ø                          | 0.9      | 0.9 | 0.9 | mm    |  |
| Number of tight tubes           | 2        | 4   | 8   |       |  |
| Channel marking on single fiber | coloured |     |     |       |  |
| Approx. weight                  | 24       | 26  | 40  | kg/km |  |

| Mechanical properties      |   |         |         |         |         |                   |
|----------------------------|---|---------|---------|---------|---------|-------------------|
| Tensile strength           | during installation   | 4000    | 4000    | 4000    | N       | IEC 60794-1-2 E1  |
|                            | in service  | 2000    | 2000    | 2000    | N       |                   |
| Min. bend radius           | during installation   | 90      | 90      | 90      | mm      | IEC 60794-1-2 E11 |
|                            | in service  | 45      | 45      | 45      | mm      |                   |
| Crush resistance <b>SM</b> | short-term  | 2100    | 2100    | 1900    | N/cm    | IEC 60794-1-2 E3  |
|                            | long-term   | 600     | 600     | 200     | N/cm    |                   |
| Crush resistance <b>MM</b> | short-term  | 1900    | 1900    | 2100    | N/cm    |                   |
|                            | long-term   | 800     | 800     | 600     | N/cm    |                   |
| Impact resistance          | Wp = 2.21 J   | 300     | 300     | 300     | impacts | IEC 60794-1-2 E4  |
| Repeated bending           | r = 50 mm, weight = 2 kg  | 20'000  | 10'000  | 10'000  | cycles  | IEC 60794-1-2 E6  |
|                            | r = 100 mm, weight = 1 kg<br>r = 120 mm, weight = 2 kg<br>Velocity = 1.44 m/s | 100'000 | 100'000 | 100'000 | cycles  | IEC 60794-1-2 E8  |
| Coiling capability         | l = 500 m, r = 45 mm  | 5       | 5       | 5       | cycles  | HUBER+SUHNER      |
|                            | l = 500 m, r = 80 mm  |         |         |         |         |                   |
| Torsion                    | ±1440°, l = 1000 mm   | 1000    | 1000    | 1000    | cycles  | IEC 60794-1-2 E7  |

| Thermal properties |                     |            |  |  |    |                  |
|--------------------|---------------------|------------|--|--|----|------------------|
| Temperature range  | during installation | -46 to +85 |  |  | °C | IEC 60794-1-2 F1 |
|                    | in service          | -60 to +85 |  |  | °C |                  |
|                    | in storage          | -60 to +85 |  |  | °C |                  |

| Combustion properties |           |     |      |      |  |
|-----------------------|-----------|-----|------|------|--|
| Fire load             | 0.5       | 0.5 | 0.75 | MJ/m |  |
| 2002/95/EC (RoHS)     | compliant |     |      |      |  |