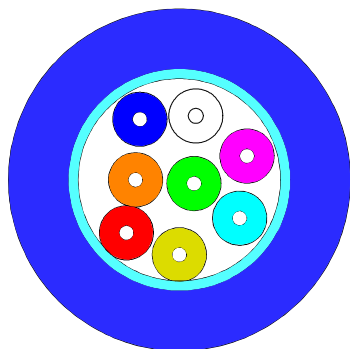


AXAI-I/O-W, distribution and trunk cable

2 – 24 fibre cable for combined indoor and outdoor use, LSOH sheath, non-metallic, tight buffer

EN 50173-1:2002

IEC 60794-2-20



Application

As backbone in LAN's
 For premises wiring
 Indoor and outdoor in ducts
 Internal wiring

Special features

Small dimensions
 Wide temperature range for worldwide use
 Completely dry longitudinal water blocked construction

Standards

EN 187 000
 IEC 60794-2
 IEC 60794-2-20
 ISO 11801 2nd edition
 EN 50 173-1

Construction

| | |
|-----------------|---|
| Fibre | 2 - 24 tightly buffered fibres 900 $\mu\text{m} \pm 50 \mu\text{m}$. For colour coding please see separate specification sheet |
| Strength member | Low fuzz glass yarns |
| Sheath | LSOH fire retardant, UV stabilised, EN 50290-2-27 |

Fire rating

| | |
|--------------------------------|---|
| IEC 60332-1-2 | Single vertical wire test, |
| IEC 60332-3-24 = IEC 332-3C | Vertically-mounted bunched wires and cables |
| IEC 60754-1 | No halogens |
| IEC 60754-2 | No acid matters |
| IEC 61034-2 | No dense smoke |

AXAI-I/O-W, distribution and trunk cable

Heat of combustion

| | | |
|----|------------|------------|
| 2 | 210 MJ/km | 0.06 KWh/m |
| 4 | 310 MJ/km | 0.09 KWh/m |
| 8 | 560 MJ/km | 0.16 KWh/m |
| 12 | 765 MJ/km | 0.21 KWh/m |
| 24 | 1240 MJ/km | 0.35 KWh/m |

Physical properties

IEC 60974-1-2

| | | 2 | 4 | 8 | 12 | 24 |
|------------------------------|-----|---|-------|-----------------|-------|--------|
| Permanent tensile strength | E1 | 160 N | 220 N | 340 N | 450 N | 700 N |
| Maximum installation load | E1 | 325 N | 440 N | 680 N | 900 N | 1400 N |
| Impact | E4 | 10 J | | | | |
| Crush (compressive strength) | E3 | 2000 N/ 100 mm (plate/plate) 750 N (mandrel/plate) | | | | |
| Torsion | E7 | 5 cycles ± 1 turn/1 meter | | | | |
| Flexing | E8 | 1000 cycles | | | | |
| Cable bend | E11 | 0.2 dB/ ± 5 turn | | | | |
| Temperature range | F1 | Operation | | -40 °C to 70 °C | | |
| | | Installation | | -10 °C to 60 °C | | |
| | | Storage | | -40 °C to 70 °C | | |
| Water tightness | F5B | Pass | | | | |

Mechanical properties

| Fibre count | Nominal diameter | Nominal cable weight | Minimum bending radius |
|-------------|------------------|----------------------|------------------------|
| 2 | 4.5 mm | 21 kg/km | 50 mm |
| 4 | 5 mm | 26 kg/km | 50 mm |
| 8 | 6 mm | 35 kg/km | 50 mm |
| 12 | 6.5 mm | 45 kg/km | 50 mm |
| 24 | 8 mm | 65 kg/km | 60 mm |

Transmission characteristics

IEC 60793-2

Refer to the fibre data sheets

Ordering information

| 9/125 fibre (SMF652.D), Blue* | | 50/125 fibre (MMF50HiCap), Orange | | 62.5/125 fibre (MMF62HiCap), Grey* | |
|-------------------------------|----------------------|-----------------------------------|-----------------------|------------------------------------|-------------------------|
| Part no. | Cable code | Part no. | Cable code | Part no. | Cable code |
| 692110 | G2-9/125 AXAI-I/O-W | 692112 | G2-50/125 AXAI-I/O-W | 692114 | G2-62.5/125 AXAI-I/O-W |
| 692120 | G4-9/125 AXAI-I/O-W | 692122 | G4-50/125 AXAI-I/O-W | 692124 | G4-62.5/125 AXAI-I/O-W |
| 692140 | G8-9/125 AXAI-I/O-W | 692142 | G8-50/125 AXAI-I/O-W | 692144 | G8-62.5/125 AXAI-I/O-W |
| 692150 | G12-9/125 AXAI-I/O-W | 692152 | G12-50/125 AXAI-I/O-W | 692154 | G12-62.5/125 AXAI-I/O-W |
| 692180 | G24-9/125 AXAI-I/O-W | 692182 | G24-50/125 AXAI-I/O-W | 692184 | G24-62.5/125 AXAI-I/O-W |