M00002555

EPFU cable, 12-fiber, SM, G657A1, 1.60mm, yellow, Emtelle

Description

Fiber unit with twelve fibers bundled together in a protective layer, surrounded by a low-friction thermoplastic outer sheath. The unit is intended for blowing into microducts and duct bundles and can be installed with standard blowing equipment. The fibers are dry and not covered with gel.

Brand

Emtelle

Physical specifications

Construction	Optical fibers and filler fiber (mechanical fiber), bundled in a protective layer, with a low-friction outer sheath
Outer sheath material	Thermoplastic, low friction
Color	Yellow, with black print every meter
Filler fiber color	Natural
Diameter	1.6 mm (nominal)
Weight	2.2 g/m (nominal)
Suitable for microduct	Inner diameter from 3.0 mm

Mechanical specifications

Bend radius	80 mm
Tensile force	Max. weight of 1 km (W), 10 min: fiber strain ≤ 0.4%; after test attenuation increase 0.05 dB and fiber strain 0.05%
Tensile force (in operation)	Max. W/3
Bend test	Ø 40 mm x 3 turns, 5 cycles at 20°C: attenuation increase 0.05 dB
Crush resistance	100 N, 1 min: attenuation increase 0.05 dB; 500 N, 15 min: no fiber break

Optical specifications

Fiber type	SM, G.657.A1
Number of fibers	12
Fiber color code	Blue, orange, green, red, grey, yellow, brown, violet, black, aqua, pink, white
Attenuation (max., 20°C)	1310–1625 nm: 0.40 dB/km; 1550 nm: 0.30 dB/km; 1383 nm: 0.34 dB/km
PMDQ	≤ 0.2 ps/√km

Environmental specifications

Installation temperature	-10°C to +50°C
Operating temperature	-20°C to +60°C
Storage temperature	-20°C to +70°C
Water resistance	1000 hours in water (18–22°C): ≤ 0.07 dB/km change
Temperature cycling	+20°C / -40°C / +60°C, 3 cycles: ≤ 0.5 dB/km during test, ≤ 0.1 dB/km change
Damp heat	10 cycles (IEC 60068-2-38): ≤ 0.5 dB/km during test, ≤ 0.1 dB/km change

Classification codes and standards

Standards	ITU-T G.657; IEC 60794-5; IEC 60794-1-2 (E3, E11A, F1); IEC 60068-2-38; EN 187000
Certification	UL OFNP (US), when installed in plenum-rated duct bundles (approved version: 2.0 g/m)