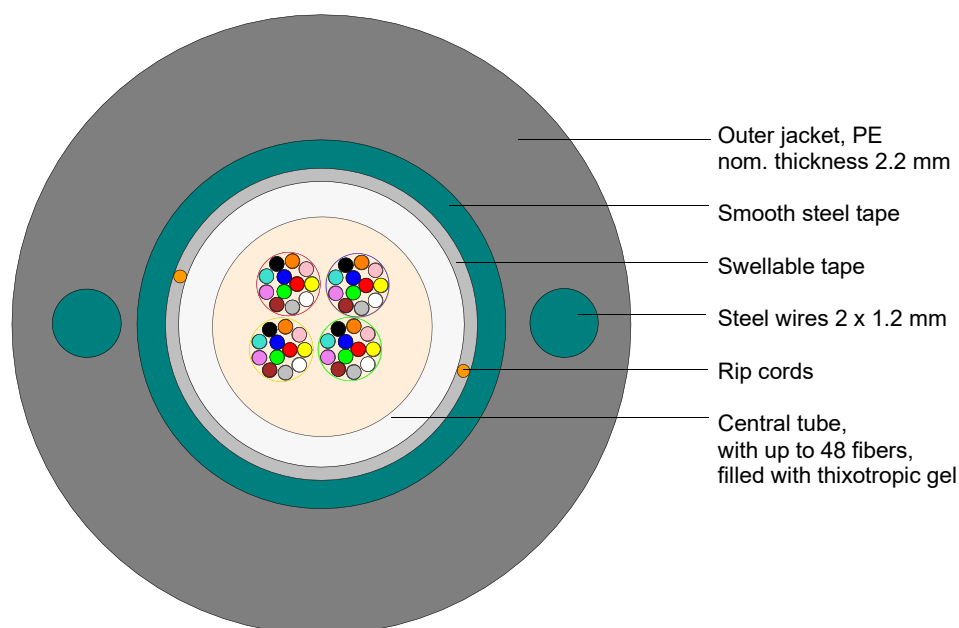


Data sheet

Armored fiber optic buried cable

with 2 till 48 single-mode fibers E9/125 in a central tube,
with a smooth steel tape and 2 steel wires in the cable jacket



Principle drawing for a A-D(ZM)(SG)2Y 1 x (4x12) E9/125 0.36F3.5 + 0.22H18

A-D(ZM)(SG)2Y 1x2 – 1x48 E9/125 0.36F3.5 + 0.22H18

Design and special properties

- Thin and robust cable
- Cables for direct burial, in applications with high mechanical loads and in areas with rodents
- Smooth (non-corrugated) steel tape as protection against rodents and mechanical damage
- Central tube construction
- Dry cable construction by water swellable materials
- Two steel wires (diameter 1.2 mm) as strength members, opposite embedded in the outer jacket
- Outer jacket PE, UV resistant
- The used single-mode fibers are fully compliant to standard ITU G.652 D (reduced OH-peak) showing low attenuation throughout the 1285 nm to 1625 nm wavelength range
- Customer standard for fiber coloring
- Cable design according to Corning standard

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Data sheet

Coloring

Fibers:	blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, aqua
Fiber-bundles:	fiber-bundles, each with 12 fibers and each with an individual yarn coloring yarn coloring: blue, orange, green, brown
Central buffer tube:	natural
Outer jacket:	black
Cable printing:	m + handset + double sine + CORNING + year + A-D(ZM)(SG)2Y 1 x nn E9/125 nn = number of fibers hot foil
Method:	printing, white

Characteristics of fibers E9/125 SMF 28e™ - low water peak fiber -

Optical and mechanical:

Mode field diameter at 1310 nm	[μm]	9.2 ± 0.4
Cladding diameter	[μm]	125.0 ± 0.7
Coating diameter	[μm]	242 ± 5
Attenuation at 1310 nm	[dB/km]	d 0.36
Attenuation at 1550 nm	[dB/km]	d 0.22
Attenuation at 1383 nm	[dB/km]	d 0.36
Dispersion in the range 1285 to 1330 nm	[ps/(nm km)]	d 3.5
Dispersion at 1550 nm	[ps/(nm km)]	d 18
Cable cutoff wavelength (λ _{cc})	[nm]	d 1260

The fibers are fully in compliance with ITU-T G.652.D and annexes

Technical cable characteristics

Mechanical and environmental:

Cable type A-D(ZM)(SG)2Y ...		1x2 - 12	1x(2x12)	1x(3x12)	1x(4x12)
Number of fibers		2 - 12	24	36	48
Number of fiber-bundles		0	2	3	4
Number of fibers per fiber-bundle		n.a.			12
Number of tubes - central tube					1
Diameter central tube, approx.	[mm]	3.0	3.5		5.0
Outer diameter of the cable, approx.	[mm]	8.8	9.6		10.8
Weight of the cable, approx.	[kg/km]	85	95		125
Min. bending radius during installation	[mm]	180	200		220
Max. tensile load during installation	[N]				5300
Temperature range	Laying and installation Operation Transport and storage	[°C]			-5 to 50 -30 to 70 -40 to 70
Water penetration (0.1 bar / 24 h)		[m]			d 3

Delivery length

Delivery length up to 6 km

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