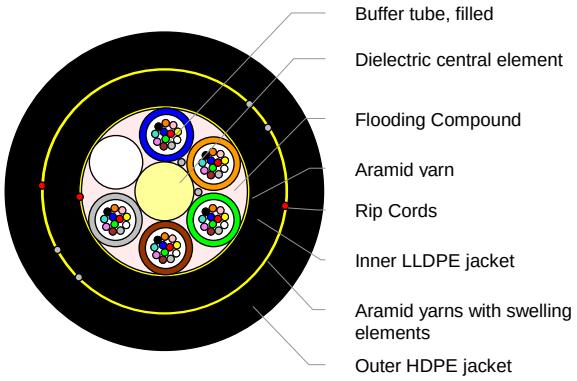
Product Family: **LANscape® Outdoor Cables**

Cable type: **Outdoor stranded loose tube double jacketed cable/ A-DF(ZN)2Y(ZN)2Y 12 - 72 E9/125…LG**

Fibre: **Full- Spectrum Single Mode Fibre, SMF28e+ (OS2)**

Description and applications

The outdoor stranded loose tube (minibundle) cables can be outdoor for campus backbone. The cables can be installed in conduits, ducts and be buried directly in the ground.



Cable

- Water blocking to IEC 60794-1-2-F5
- Inner LLDPE jacket
- Outer HDPE jacket
- UV and microbe resistant
- Aramid yarns as tesile elements
- Cables for direct burial in sand beds, in applications with high mechanical loads; resistant to most petrochemical agents for short term contact
- Can be directly buried or installed in ducts.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles

Design

Fibres and buffer tubes colour coding

- Fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
- Buffer tubes: blue, orange, green, brown, grey
- Filling elements: natural

Cable

- Central element: Glass Reinforced Plastic
- Stranded buffer tubes, Ø = 2.25 mm, with thixotropic filling compound;
- Core filling compound and swelling elements
- Polyester tape
- Aramid yarns
- Ripcord
- Inner LLDPE jacket; nominal thickness: 1.5 mm
- Ripcords
- Aramid yarns with swelling elements
- Outer HDPE jacket; nominal thickness 1.5 mm
- Jacket colour: Black

- Cable marking:

Meter – ∩ – ∿ – CORNING – Year – A-DF(ZN)2Y(ZN)2Y 2x12E9/125

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Cable characteristics

Mechanical and environmental:

Temperature range	Laying and installation Operation Transport and storage	[°C]	-5 to +50 -30 to +70 -40 to +70

Fibre count	Cable Ø [mm]	Cable weight [kg/km]	Min. bend radius during installation [mm]	Min. bend radius in service [mm]	Max. tensile load during installation [N]	Max. crush resistance (short term, reversible) [N/10cm]	Water penetration (0.1bar/24 h) [N]
12 (1x12)	13.4	139	270	200	5000	5000	≤ 3
24 (2x12)	13.4	139	270	200	5000	5000	≤ 3
36 (3x12)	13.4	139	270	200	5000	5000	≤ 3
48 (4x12)	13.4	139	270	200	5000	5000	≤ 3

Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from current cable design have no influence whatsoever on mechanical and optical characteristics

Fibre

- The single mode fibres fully comply with ITU-T G.652 D (reduced OH-Peak) and show a minimum of attenuation throughout the range from 1285 nm to 1625 nm.
- According to TIA/EIA 492-CAAB
- According to IEC 60793-2-50 Type B1.3
- According to Telcordia GR-20

Optical Characteristics (max. values cabled) E9/125, SMF-28^{e}+$^{®}$ (OS2):

Mode field diameter	[µm]	9.2 ± 0.4
Attenuation @ 1310 nm	[dB/km]	≤ 0.36
Attenuation @ 1550 nm	[dB/km]	≤ 0.22
Attenuation @ 1383 nm	[dB/km]	≤ 0.36
Dispersion in the range 1285 to 1330 nm	[ps/(nm · km)]	≤ 3.5
Dispersion @ 1550 nm	[ps/(nm · km)]	≤ 18
Cable cut-off wavelength	[nm]	≤ 1260

Fibre data are available upon request (fibre datasheet)

Ordering information:
Non standard cables as the one here described are assigned a sequential part number that will be determined upon order reception.

Order by cable description: A-DF(ZN)2Y(ZN)2Y 2x12E9/125…LG

Maximum delivery length per drum: 6000 m

Standard tolerance: +3/-2%

Lagged drums

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