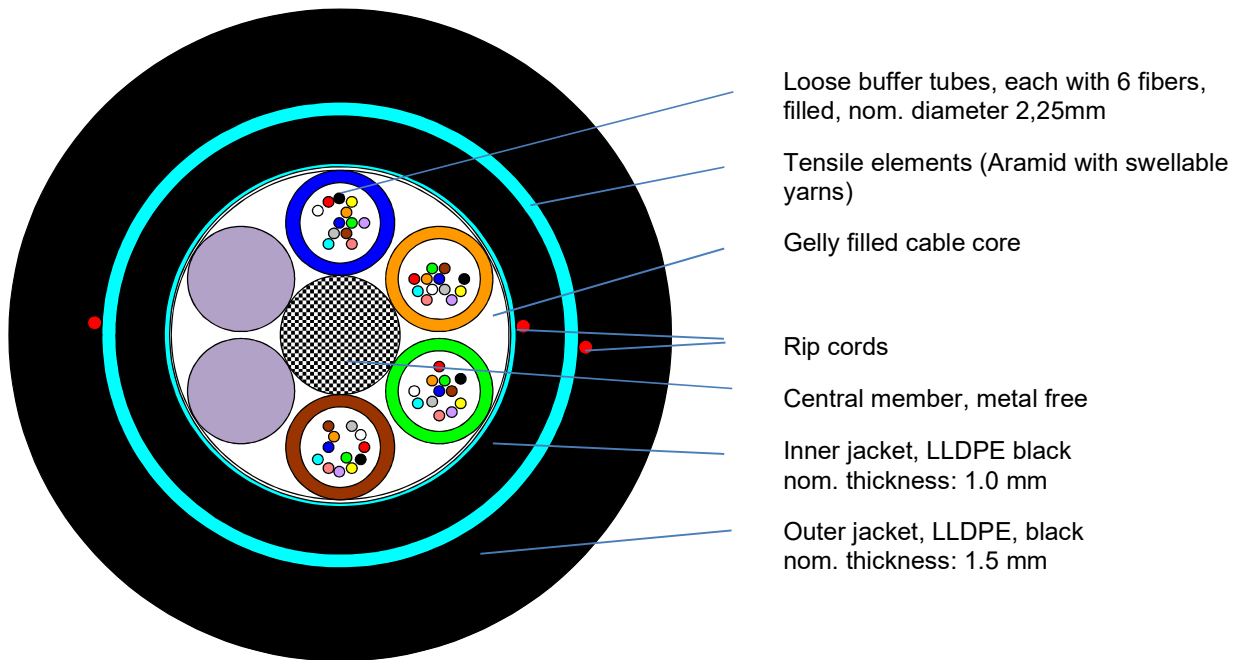


# Armored fiber optic duct cable

with 48 single-mode fibers E9/125 SMF-28e+™,  
stranded loose tube design, gelly filled” cable core and double jacket design



Principle drawing: A-DF2Y(ZN)2Y 4x12 E9/125 LT 2.3  
Catalog Number: 048ERK-EC781A20

## Design and special properties

- Particularly light, thin and robust cable
- Cable for pulling into duct systems, laying in concrete channels or on cable racks
- Optimized cable stiffness yields an excellent blowing performance
- Minibundle (loose tube) design
- Stranded loose tube construction, S/Z stranding
- Gelly filled cable core by water-swellaable elements (longitudinally tapes)
- Inner- jacket LLDPE black, UV resistant
- Outer- jacket LLDPE black, UV resistant
- Tensile strength elements: Aramid yarns
- The used Corning® single-mode fibers SMF-28e+™ are fully compliant to standard ITU-T G.652.D (reduced OH- peak) showing low attenuation throughout the 1285 nm to 1625 nm wavelength range
- Colour code for fiber and tubes according to Telcordia
- Cable design acc. to Corning standard

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## Coloring

Fibers: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, aqua

Tubes: blue, orange, green, brown

Inner jacket: black

Outer jacket: black

Cable printing: Meter#Handset#Corning#Month/Year E9/125#Month/Year#A-DF2Y(ZN)2Y#

4x12 E9#Communication Cable Royal Jordanian Air Force (RJAF)

Method: hot foil printing, black

## 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]	≤ 0.36
Attenuation at 1550 nm	[dB/km]	≤ 0.22
Attenuation at 1383 nm	[dB/km]	≤ 0.36
Dispersion in the range 1285 to 1330 nm	[ps/(nm*km)]	≤ 3.5
Average dispersion at 1550 nm	[ps/(nm*km)]	≤ 17
Max.Dispersion at 1550 nm	[ps/(nm*km)]	≤ 18
Cable cutoff Wavelength (λ <sub>cc</sub> )	[nm]	≤ 1260
PMD cabled ( link value)	Ps/√	≤ 0,06
Max.PMD cabled (single fiber)	Ps/√	≤ 0,2

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

## Technical cable characteristics

Mechanical and environmental:

Max. tensile load during installation	[N]	3000
Crush (test methode acc. IEC 69794-1-2 E3)	[N/10 cm]	2000
Impact (test methode acc. IEC 69794-1-2 E4, 5 J, r=12,5 mm)	impacts	1 in 3 pos.
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]	≤ 3

Cable type	No. of fibers	No. of tubes	No. of stranding elements	Outer Ø, approx. [mm]	Weight, approx. [kg/km]	Min. bending radius during install. [mm]
<b>A-DF 2Y(ZN)2Y</b>						
4x12	48	4	6	12.5	143	20xD

## Delivery:

Delivery length 6km