

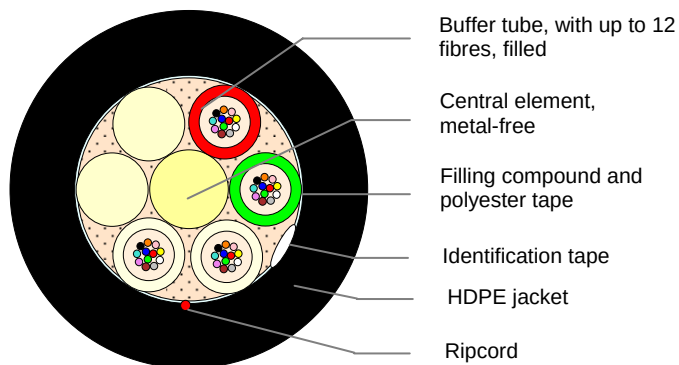
Product Family: LANscape® Outdoor Cables
Cable type: Outdoor stranded loose tube cable (minibundle) /
 A-DF(ZN)2Y 4-72.... LT, 2.45 mm tubes, 2.2 mm HDPE jacket to NGTS 3.8.7
Fibre: All fibre types

Description and applications

The outdoor stranded loose tube (minibundle) cables can be deployed both indoor and outdoor for campus backbone and building backbone (riser) cabling as well as for the cabling between floor distributors. The cables can be installed in conduits, ducts and be buried directly in the ground.

Cable

- Cable design according to NGTS 3.8.7
- HDPE jacket
- Water blocking to IEC 60794-1-2-F5
- UV and microbe resistant
- Filled core cable
- Metal-free cable, hence no ground loop problems.
- Can be directly buried or installed in ducts.
- Thin, robust cable.
- RoHS compliant
- Telcordia (Bellcore) colour coding of fibres and bundles



Example: A-DF (ZN)2Y 4x12 ... LG

Design

Fibres and buffer tubes colour coding

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

Cable

- Central element GRP
- Stranded buffer tubes, $\varnothing = 2.45$ mm, with thixotropic filling compound; up to 72 fibres, if required for the 6 elements core, filling elements ($\varnothing = 2.45$ mm) are used
- Core filling compound
- Polyester tape
- Identification tape: CORNING – year
- Ripcord
- HDPE jacket; nominal thickness: 2.2 mm
- Jacket colour: Black (OM4, OM3, OM2, OM1, OS2)
- Cable marking:

Meter - CORNING - Year - Cable type¹⁾ + Fibre count²⁾ + Fibre type³⁾

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Cable characteristics

Mechanical and environmental:

Temperature range				Laying and installation		[°C]		-5 to +50	
				Operation				-30 to +70	
				Transport and storage				-40 to +70	
Cable type ¹⁾	Fibre count ²⁾	Cable Ø [mm]	Weight [kg/km]	Min. bend radius installation [mm] Ultra Bend & Standard	Min. bend radius operation [mm] Ultra Bend & Standard	Max. tensile strength installation [N]	Max. crush resistance [N/10cm] reversible		
A-DF(ZN)2Y	4 (1x4)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	8 (2x4)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	12 (3x4)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	16 (4x4)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	24 (6x4)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	6 (1x6)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	12 (2x6)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	18 (3x6)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	24 (4x6)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	36 (6x6)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	12 (1x12)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	24 (2x12)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	36 (3x12)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	48 (4x12)	12.2	115	185	145	2250	5000		
A-DF(ZN)2Y	72 (6x12)	12.2	115	185	145	2250	5000		

Fibre count per tube and hybrid construction, have no influence whatsoever on mechanical and optical characteristics

Optical characteristics (values cabled)

Fibre type ¹⁾	G62.5L/125 Infinicor 300	G50/125 Pretium 150 ULTRA-BEND 7.5	G50/125 Pretium 300 ULTRA-BEND 7.5	G50/125 Pretium 550 ULTRA-BEND 7.5	E9/125
Fibre core Ø (µm), Type	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	9 Singlemode
Fibre category	OM1	OM2	OM3	OM4	OS2
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310/1383/1550
Attenuation – max. (dB/km)	3.1 / 0.8	2.8 / 1.0	2.8 / 1.0	2.8 / 1.0	0.36/0.36/0.22
Attenuation – typ. (dB/km)	2.9 / 0.7	2.4 / 0.8	2.4 / 0.8	2.4 / 0.8	- / - / -
Overfilled Launch (OFL) Bandwidth (MHz · km)	200 / 600	700 / 500	1500 / 500	3500 / 500	- / - / -
Minimum Effective Modal Bandwidth - EMB (MHz · km)	220 / -	950 / -	2000 / -	4700 / -	- / - / -
Serial 1Gigabit Ethernet (m)	300/ 550	750 / 600	1000 / 600	1100 / 600	5000 / - / -
Serial 10Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	10000 / - / 40000
Cable cut-off wavelength (nm)	- / -	- / -	- / -	- / -	1260
Induced attenuation (dB) @ radius (mm)	Not applicable	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	<0.2 @ 7.5 / -	Not applicable
Standards in Compliance	TIA/EIA 492AAAA, Restricted Mode Launch (RML) according to TIA/EIA455-204 and (OFL) IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAB, Restricted Mode Launch (RML) according to TIA/EIA455-204 and IEC 60793-1-41, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492AAAD, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801
Fibre category code	A	G	H	K	U

Ordering information:

Non standard cables as those here described are assigned a sequential part number that will be determined upon order reception.

Order by cable description: A-DF(ZN)2Y + Fibre count²⁾ + Fibre type³⁾ NGTS 3.8.7

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Max. delivery length per drum:

Multimode fibres: 4000 m

Singlemode fibres: 6000 m

Standard tolerances: -2/+3%