

Self-supporting Flat Cable

ID: **Z159**

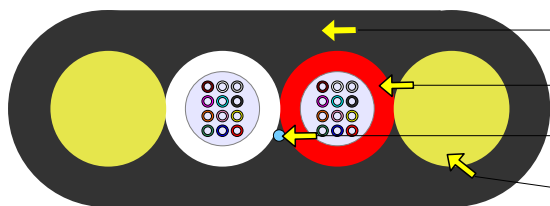


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A-D(2ZN)2YT HD 2×12F

This cable is suitable for outdoor aerial use or direct burial to sand bed.



Black HDPE outer jacket, UV stable
(Other colours available on request)

Gel filled PBT loose tube with optical fibres

Rip-cord

Strength member

Clamp



Fibre colour coding

According to IEC 60304

- | | |
|----------|-------------|
| 1 Red | 7 Brown |
| 2 Green | 8 Violet |
| 3 Blue | 9 Turquoise |
| 4 Yellow | 10 Black |
| 5 White | 11 Orange |
| 6 Grey | 12 Pink |

Other fibre colour sequences available on request

Tube colour coding

According to IEC 60304

- 1 Red
2 Natural

Other fibre colour sequences available on request

Fibre Type

SMF ITU-T G.657.A (AllWave-Flex)
SMF ITU-T G.657.B3 (AllWave-Flex)
SMF ITU-T G.655 C&D (TrueWave Reach)
SMF ITU-T G.655 C&E G.656 (TrueWave Reach)
SMF ITU-T G.652.D (LWP)
SMF ITU-T G.652.D (AllWave))

See the Fibre Specification sheet

Sheat Marking

Print colour White
Print method INK-Jet
Print legend manufacturer's name, job number, type of cable, length marking @ 1 m intervals

Other print legends available on request

Order example

2100 m A-D(2ZN)2YT HD 24E9/125G.652D jacket colour BLK, specification Z159

Mechanical and Environmental properties

Max. tensile strength	*E1A	1300 N
Crush resistance	*E3	4000 N/10cm
Impact resistance	*E4	3 impacts (w/8N.m)
Min. bend radius	*E11A	100 mm
	*E11B	140 mm (load)
Moisture resistance		passed
Compound flow	*E14	30 cm / 24h / 70°C passed
Temperature range	*F1	
	installation	-5 °C to +50 °C
	operation	-40 °C to +70 °C
	storage	-40 °C to +70 °C
Cable informative nominal weight (calc.)		40 kg/km
Standard put-up length		2100 m, 4100 m
Packaging		Plywood drum
Loose tube diameter		2,0 mm
Outer jacket thickness		1,0 ± 0,2 mm
Cable outer diameter		9,1 (max. 9,4) × 3,8 (max. 4,4) mm (measured acc. to EN 60811-1-1)

* IEC 60794-1-2

Note: When installing or assembly under temperature below 5°C cable has to be stock in temp of 20°C at least 24h before installation.

Cable life time - minimum 30 years

Installation

Span		Installation (1,5% Sag)		Wind				Hoarfrost				Wind + Hoarfrost			
				50 km/h		100 km/h		10 mm		20 mm		50 km/h + 10 mm		50 km/h + 20 mm	
		Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.
20	Force [N]	104		197		511		389		792		477		871	
	Sag [m]	0	0,3	0,32	0,16	0,5	0,06	0	0,45	0	0,6	0,32	0,37	0,29	0,55
40	Force [N]	208		363		875		674		1325		821			
	Sag [m]	0	0,6	0,7	0,34	1,16	0,14	0	1,04	0	1,44	0,78	0,85		
60	Force [N]	316		518		1183		929				1116			
	Sag [m]	0	0,9	1,1	0,54	1,04	0,24	0	1,7			1,25	1,42		
80	Force [N]	416		659				1151				1310			
	Sag [m]	0	1,2	1,54	0,76			0	2,44			1,8	2,04		
100	Force [N]	520		798				1324							
	Sag [m]	0	1,5	1,99	0,98			0	3,22						
120	Force [N]	625		931											
	Sag [m]	0	1,8	2,46	1,21										

Other values are available on request

50 km/h = 13,9 m/s = 121 Pa = Beaufort 7

100 km/h = 28,7 m/s = 482 Pa = Beaufort 10

