

# Self-supporting Flat Cable

ID: **Z159**

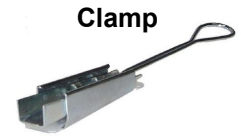
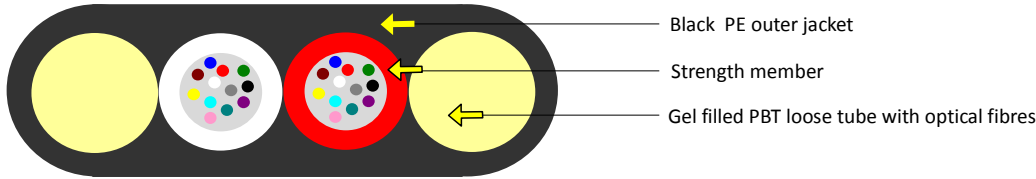


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## A-DQ(2ZN)2YT 2x12F

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



### 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

### 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 RS)
- 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 | Black  |
| 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-DQ(2ZN)2YT 24 E9/125G.652D jacket colour BLK, specification Z159

### Tube colour coding

- 1 Red
- 2 Natural

Other tubes colour sequences available on request

### 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                    |
| Cable stiffness       | *E17  | 0,157294 Nm <sup>2</sup>  |
| Repeat bending        | *E6   | 500 cycles (50 mm / 2 kg) |
| Kink                  | *E10  | 100 mm                    |
| 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.) | 38 kg/km             |
| Standard put-up length                   | 2100 m               |
| Packaging                                | Plywood drum         |
| Loose tube diameter                      | 1,8 mm               |
| Outer jacket thickness                   | 1,0 mm (min. 0,8 mm) |
| Cable outer diameter                     | 9,1±0,3 x 3,8±0,4 mm |

\* IEC 60794-1-2

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

