

# Self-Supporting Flat Cable

ID: **Z159**

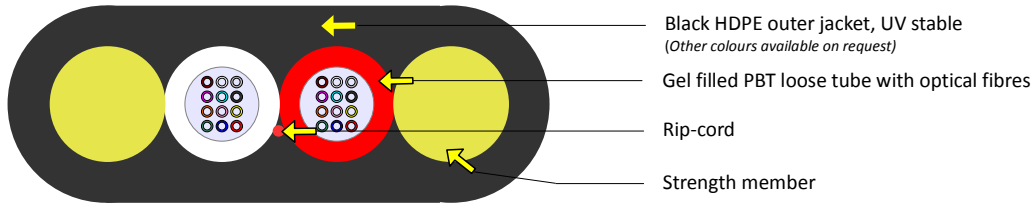


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## A-D(2ZN)2YT HD 2×12

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



### 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)

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.657.A1 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
Modulus		9,42 GPa
Thermal expansion coefficient		11,6 ppm/K
Temperature range	*F1	
	installation	-15 °C to +50 °C
	operation	-40 °C to +70 °C
	storage	-40 °C to +70 °C
Cable informative nominal weight (calc.)		39 kg/km
Standard put-up length		2100 m, 4100 m (±5 %)
Packaging		Plywood drum
Loose tube diameter		1,7 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

SPAN (m)	INSTALATION		NESC LIGHT			NESC MEDIUM			NESC HEAVY		
			sag (m)		load (N)	Sag (m)		load (N)	sag (m)		load (N)
			sag (m)	N		horizontal	vertical		horizontal	vertical	
20	0,3	84	0,47	0,13	478	0,36	0,43	683	0,35	0,59	1066
30	0,5	114	0,81	0,22	628	0,61	0,74	898	0,6	1,01	1419
40	0,6	169	1,12	0,3	809	0,86	1,05	1128			
50	0,8	198	1,51	0,4	940	1,16	1,41	1319			
60	0,9	253	1,86	0,5	1095						
70	1,1	282	2,29	0,61	1215						
80	1,2	338	2,68	0,72	1358						

