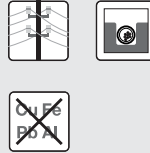
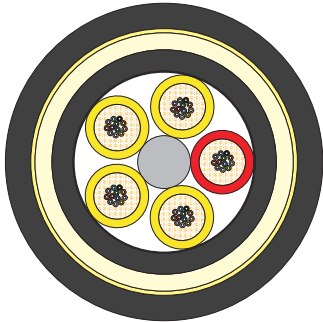


## All-Dielectric-Self-Supporting Cables (ADSS)

Aerial Cable, unfilled, loose tube construction, metal-free

A-D2Y(ZN)2Y ... 6kN



Typ	number of tubes + fillers	number of fibers / tube	numbers of fibers	tube-diameter approx. mm	tensile strength max. N	weight approx. kg/km	outer diameter approx. mm
A-D2Y(ZN)2Y	1 + 5	2 (4)	2 (4)	2,3	6.000	135	13,0
A-D2Y(ZN)2Y	2 + 4	2 (4)	4 (8)	2,3	6.000	135	13,0
A-D2Y(ZN)2Y	3 + 3	2 (4)	6 (12)	2,3	6.000	135	13,0
A-D2Y(ZN)2Y	4 + 2	2 (4)	8 (16)	2,3	6.000	135	13,0
A-D2Y(ZN)2Y	5 + 1	2 (4)	10 (20)	2,3	6.000	135	13,0
A-D2Y(ZN)2Y	6 + 0	2 (4)	12 (24)	2,3	6.000	135	13,0
A-D2Y(ZN)2Y	1 + 4	6	6	2,8	6.000	140	13,6
A-D2Y(ZN)2Y	2 + 3	6	12	2,8	6.000	140	13,6
A-D2Y(ZN)2Y	3 + 2	6	18	2,8	6.000	140	13,6
A-D2Y(ZN)2Y	4 + 1	6	24	2,8	6.000	140	13,6
A-D2Y(ZN)2Y	5 + 0	6	30	2,8	6.000	140	13,6
A-D2Y(ZN)2Y	6 + 0	6	36	2,8	6.000	165	14,6
A-D2Y(ZN)2Y	1 + 4	8	8	2,8	6.000	140	13,6
A-D2Y(ZN)2Y	2 + 3	8	16	2,8	6.000	140	13,6
A-D2Y(ZN)2Y	3 + 2	8	24	2,8	6.000	140	13,6
A-D2Y(ZN)2Y	4 + 1	8	32	2,8	6.000	140	13,6
A-D2Y(ZN)2Y	5 + 0	8	40	2,8	6.000	140	13,6
A-D2Y(ZN)2Y	6 + 0	8	48	2,8	6.000	165	14,6
A-D2Y(ZN)2Y	1 + 4	12	12	3,0	6.000	155	14,4
A-D2Y(ZN)2Y	2 + 3	12	24	3,0	6.000	155	14,4
A-D2Y(ZN)2Y	3 + 2	12	36	3,0	6.000	155	14,4
A-D2Y(ZN)2Y	4 + 1	12	48	3,0	6.000	155	14,4
A-D2Y(ZN)2Y	5 + 0	12	60	3,0	6.000	155	14,4
A-D2Y(ZN)2Y	6 + 0	12	72	3,0	6.000	175	15,0
A-D2Y(ZN)2Y	8 + 0	12	96	3,0	6.000	220	17,0
A-D2Y(ZN)2Y	10 + 0	12	120	3,0	6.000	270	19,0
A-D2Y(ZN)2Y	12 + 0	12	144	3,0	6.000	330	21,2

## Application

Metal-free aerial cable (ADSS = all dielectric selfsupporting) for telecommunication- and information systems.

## Construction

FRP-central element  
loose tubes, SZ-cabling (if necessary with fillers)  
dry filled cable core  
strength members (aramide yarns)  
HDPE-outer sheath, UV-resistant, black

## Fiber colours

red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink

## Tube colours

counter core red,  
yellow (E9), green (G50) or blue (G62,5)

## Note

not longitudinally water-tight

## On request

- ï other number of tubes
- ï for temperatures down to -60C
- ï other tube and fiber colours

## Laying

usable for fixed laying on selfsupporting lines (up to 60kV) and overhead contact lines, in earth, ducts or conduits and outdoors

## Marking

double-sinus, phone-sign, meter marking, PENGG KABEL, year of manufacturing  
ï other markings on request

## Technical Data

tensile strength	according to IEC 794-1-E1 according to EN 187 000-501
compressive strength (crush)	according to IEC 794-1-E3 according to EN 187 000-504 value: 3000 N/10 cm
impact	according to IEC 794-1-E4 according to EN 187 000-505 value: 25 Nm
torsion	according to IEC 794-1-E7 according to EN 187 000-508 value: 5 cycles ±1 turn
kink, cable	according to IEC 794-1-E10 according to EN 187 000-511 value: The cables do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter.
kink, loose tube	according to IEC 794-1-E16 according to EN 187 000-512 value: The loose tubes do not kink.
temperature range	according to IEC 794-1-F1 according to EN 187 000-601 storage and transport: -40C to +70 C laying: -5C to +60C operation: -30C to +70 C
water penetration	according to IEC 794-1-F5 according to EN 187 000-605 value: No water on free end.
span distance	up to 100 m

Span distance calculation on request:

### We need the following parameter values:

- horizontal distance from pole to pole: ? [m]
- height difference from pole to pole: ? [m]
- sag in meters or percent to the above mentioned values: ? [m-%]
- ballast or added weight (ice and wind): ? [kg/m]