

All-dielectric-self-supporting cable (ADSS)

A-D2Y(ZN)2Y (HD) ADSS 16kN

Loose tube construction, metal-free



tube diameter mm	number of tubes	max. fibers / tube	max. number of fibers	tensile strength approx. N	weight approx. kg/km	outer diameter approx. mm
2,3	5*	12	60	16.000	140	14,0
2,3	6	12	72	16.000	165	14,4
2,3	8	12	96	16.000	180	15,4
2,3	10	12	120	16.000	220	17,5
2,3	12	12	144	16.000	270	18,8

* at lower number of tubes corresponding blind elements are used

Application

ADSS (all-dielectric-self-supporting) cable are metal-free air hanging cable, suited for fixing on poles. The pole distance is at 16 kN maximum 350 m.

Construction

- FRP-central element
- jelly-filled loose tubes, SZ-cabling (if necessary with fillers)
- PE-inner sheath (1,0 mm), black
- strength members (swellable aramid yarns (dry cable core))
- HDPE-outer sheath (1,2 mm), UV-resistant, black

Fiber colours

PENGK KABEL standard according to page 87 - or upon customer requirements other color codes (DIN, TIA / EIA-598 (MPO), IEC - see page 87)

Tube colours

PENGK KABEL standard according to page 88 - or upon customer requirements other color codes (DIN, TIA / EIA-598 (MPO), IEC - see page 88)

Standard marking:

double-sinus, phone-sign, meter marking, PENGK KABEL, year of manufacturing - with hot-foil stamping

On request

- dry or jelly-filled cable core
- other sheath colours
- coloured stripes
- tracking resistant outer sheath
- other marking

Technical data

tensile strength	according to IEC 60794-1-E1 value: see above table
compressive strength (crush)	according to IEC 60794-1-E3 value: 3000 N/10 cm
impact	according to IEC 60794-1-E4 value: 25 Nm
torsion	according to IEC 60794-1-E7 value: 5 cycles \pm 1 turn
kink, cable	according to IEC 60794-1-E10 value: The cable do not form a kink when a loop is drawn together to a diameter 12 times the cable outer diameter.
kink, tube	according to IEC 60794-1-E16 value: The tube do not kink.
min. bending radius	according to IEC 60794-1-E11 value: $R = 20 \times D$ (cable outer- \emptyset)
temperature range	according to IEC 60794-1-F1 storage and transport: -40°C up to +70°C installation: -5°C up to +60°C operation: -30°C up to +70°C
span distance	up to 350 m

Span calculation available 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]