



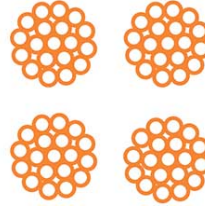
HALLEY CABLES

A2XS(F) 2YT

6/10, 12/20, 20/35 kV

Medium Voltage Power Cables

Aerial bundled cables with PE sheath



Construction:

- Conductor : round, stranded and compacted aluminium, class 2.
- Inner semi-conductive layer : semi-conductive XLPE compound.
- Insulation : XLPE type XI 1.
- Outer semi-conductive layer: semi-conductive XLPE compound around insulation.
- Water resistant element : layer of semi-conductive water absorbing tape helically wrapped.
- Metal screen : CU wires concentrically laid and one contact of CU tape with thickness of 0.1 mm.
- Water resistant element : layer of semi-conductive water absorbing tape helically wrapped.
- PE sheath : PE compound, type EP 1, black color for each phase conductor and steel.
- Messenger (for 10, 20 kV) : galvanized steel messenger 50 mm². Mass of zinc coated.
- Messenger (for 35 kV) : galvanized steel messenger 70 mm². Mass of zinc coated.
- Cores assembly : three single-phase cables twisted around a steel messenger as an aerial bundled cable.

Standards:

- Cable : HD 620.S2, IEC 60502-2, SRPS N.C5.231.
- Messenger : HD 620.S2.
- Conductors : EN 60228.
- Conductor shape : RM - class 2 conductor acc. to IEC 60228 and VDE 0295.
- Inner sheath : N.C0.195.
- Water penetration in the region of metallic screen : IEC 60502-2 annex F (125x4h, 90°C).

Applications:

These cables are suitable for medium voltage power distribution in distribution networks (6/10(12);12/20(24) kV). They may be put on the overhead lines in old and residential areas. Provides a shortcut to electrification without affecting the townscape and its environs. These cables can be strung safely on the same poles with low-voltage and telecommunication cables and have water resistant properties.

Any other sections available upon request.





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Technical data and tests:

Operating voltage	: 6/10; 12/20; 20/35 kV.
Test voltage = 2.5U _o (HD.620.S2), AC (50Hz) - 5 min	: 6/10 kV = 15 kV; 12/20 kV = 30 kV; 20/35 kV = 50 kV.
Highest system voltage, U _{max}	: 6/10 kV = max. 12 kV; 12/20 kV = max. 24 kV; 20/35 kV = max. 40 kV.
Conductor resistance at 20° C	: according to EN 60228 class 2.
Core temperature, max	: 90° C in continuous operation.
Max. short circuit temperature	: 250° C , not more than 5 sec.
Overload temperature	: 130° C / 100h per year max.
Level of partial discharge	: no more than 2pC.
Bending radius, min	: 15 x D.
Dielectric factor of losses, 50 Hz	: at 20°C, (0.8-3)x10 ⁻⁴ .
Spec. volume insulation resistance	: at 20°C, min 10 ¹⁵ Ω x cm.
Intensity of electric field	: max. 6.9-5.3 kV/mm.
Max. tensile force during laying	: for Cu conductors - 50 N/mm ² . for Al conductors - 30 N/mm ² .
Breaking load of messenger, min	: for 50 mm ² = 60 kN. for 70 mm ² = 82 kN.
Modulus of elasticity of messenger	: 175 kN/mm ²
Packing length on wooden drums	: min. 200 m.

Available constructions:

Single Al core	: 1x(25 - 150)mm ²
Standard cross section of metallic screen for conductor sizes :	
from 25 mm ² to 120 mm ²	: 16mm ² ;
from 150 mm ² to 300 mm ²	: 25mm ² ;
from 400 mm ² to 630 mm ²	: 35mm ² .

Any other sections available upon request.



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DIMENSIONS

Number of cores x Nominal cross section no x mm ²	Nominal insulation thickness mm	Nominal sheath thickness mm	Overall Diameter (Approx.) max. mm	Cu weight (Approx.) kg/km	Al weight (Approx.) kg/km	Total Weight (Approx.) kg/km	Packing: Cable coil or Drum m or N°/m
6/10 kV							
3x35RM/16+50	3,4	1,8	57,6	191	305	2060	22/500
3x50RM/16+50	3,4	2	60,8	215	440	2280	24/500
3x70RM/16+50	3,4	2	64,8	215	615	2590	24/450
3x95RM/16+50	3,4	2	68	230	835	2900	24/400
3x120RM/16+50	3,4	2	70,6	230	1055	3185	24/400
3x150RM/25+50	3,4	2	74	275	1318	3861	22/350
12/20 kV							
3x35RM/16+50	5,5	2	66,8	191	305	2555	22/400
3x50RM/16+50	5,5	2	69,2	215	440	2755	24/400
3x70RM/16+50	5,5	2	73,2	215	615	3105	24/350
3x95RM/16+50	5,5	2	76,7	230	835	3445	24/300
3x120RM/16+50	5,5	2	79	230	1055	3750	24/300
3x150RM/25+50	5,5	2	82,4	275	1318	4505	22/300

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