

A3CS AAACS Cable Application

A3C-S (AAACS) cable is an aluminum power cable that can be used as a conductor of electric current, namely as a medium for flowing electric current from one point to another.

The A3C-S cable type has a jacket or outer layer made of XLPE insulation. Unlike the A3C / AAAC cable, the cable is made of aluminum material but does not have an outer layer of cable or non-jacket. A3C-S cable can be used for electric current with a maximum termination voltage of 20 kV.

AAACS Cable Construction

Single Core Conductor, Aluminum Conductor

Extrusion Insulation from XLPE

A3CS AAACS Cable Specification

SPLN 41-10 or Manufacture Spec

We sell A3CS cables from 35mm² to 1000mm², here are the details of the AAACS cable sizes that we provide(Other specifications are available upon request)

PHYSICAL PROPERTIES						ELECTRICAL PROPERTIES				
Cross Sectional Area		Number and Diameter Wire	Semi Conductor Thickness	Insulation Thickness	Approx Overall Diameter	Approx able Weight	Calculated Breaking Force	DC. Resistance at 20C	Current Carrying Capacity	Standard Length
Nominal Size	Actual Size									
mm	mm ²	Pcs/mm	mm	mm	mm	kg/km	kg	ohm/km	A	m
35	34.36	7/2.50	0.8	3	15.1	227	980	0.958	167	1,000
50	45.71	19/1.75	0.8	3	16.4	289	1,300	0.724	200	1,000
70	75.55	19/2.25	0.8	3	19	385	2,150	0.438	275	1,000
95	93.27	19/2.50	0.8	3	20.1	449	2660	0.355	315	1,000
100	99.3	7/4.25	0.8	3	20.4	40	2830	0.332	325	1,000
120	112.85	19/2.75	0.8	3	21.4	530	3,220	0.293	356	1,000
150	147.1	37/2.25	0.8	3	23.4	639	4,190	0.225	423	1,000
185	181.6	37/2.50	0.8	3	25.1	770	5,170	0.183	484	1,000
240	242.5	61/2.50	0.8	3	28	955	6,910	0.139	585	1,000
300	299.4	61/2.50	0.8	3	30.1	1,052	8530	0.111	670	1,000
400	431.18	61/3.00	0.8	3	34.6	1,464	12290	0.077	810	500
500	506.04	61/3.25	0.8	3	36.85	1,774	14420	0.066	930	500
630	643.24	91/3.00	0.8	3	40.6	2,129	18330	0.052	1085	500
800	754.92	91/3.25	0.8	3	43.35	2,471	21515	0.044	1255	500
1000	1,005.07	91/3.75	0.8	3	48.85	3,232	28640	0.033	1450	500