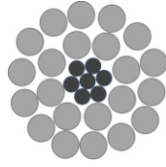


German Standards AACSR Conductor



APPLICATION

AACSR is a concentrically stranded conductor composed of one or more layers of Aluminium-Magnesium-Silicon alloy wire stranded over a high-strength zinc coated (galvanized) steel core. AACSR Conductors have approx. 40% to 60% more strength than comparable standard ACSR with only 8 to 10% decrease in conductivity.

STANDARDS

German Standards DIN EN 50182
(OLD STANDARD DIN 48 206)

CONSTRUCTION

Conductor

Aluminum Alloy Wires, concentrically stranded over a central wire/core of Galvanized steel.

THE CABLE TEST

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SUSTAINABILITY COMMITMENT

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German Standards DIN EN 50182(OLD STANDARD DIN 48 206)

New Code	Old Code	Stranding & Wire Diameter		Overall Diameter	Sectional Area			Approximate Weight	Breaking Load	DC Resistance	Current Rating Capacity
		Aluminum	Steel		Aluminum	Steel	Total				
		mm	mm		mm ²	mm ²	mm ²				
15-AL3/3-ST1A	16/2.5	6/1.80	1/1.80	5.40	15.3	2.54	17.8	61.6	7.48	2.1602	100
24-AL3/4-ST1A	25/4	6/2.25	1/2.25	6.75	23.9	3.98	27.8	96.2	11.69	1.3825	135
34-AL3/6-ST1A	35/6	6/2.70	1/2.70	8.10	34.4	5.73	40.1	138.6	16.66	0.9601	165
44-AL3/32-ST1A	44/32	14/2.00	7/2.40	11.2	44.0	31.7	75.6	369.1	49.08	0.7556	
48-AL3/8-ST1A	50/8	6/3.20	1/3.20	9.60	48.3	8.04	56.3	194.7	23.08	0.6835	200
51-AL3/30-ST1A	50/30	12/2.33	7/2.33	11.7	51.2	29.8	81.0	374.6	49.12	0.6496	
70-AL3/11-ST1A	70/12	26/1.85	7/1.44	11.7	69.9	11.4	81.3	282.0	33.96	0.4756	270
94-AL3/15-ST1A	95/15	26/2.15	7/1.67	13.6	94.4	15.3	109.7	380.3	45.79	0.3521	330
97-AL3/56-ST1A	95/55	12/3.20	7/3.20	16.0	96.5	56.3	152.8	706.5	90.40	0.3444	
106-AL3/76-ST1A	105/75	14/3.10	19/2.25	17.5	105.7	75.5	181.2	885.0	119.56	0.3155	-
122-AL3/20-ST1A	120/20	26/2.44	7/1.90	15.5	121.6	19.8	141.4	490.6	59.09	0.2734	385
122-AL3/71-ST1A	120/70	12/3.60	7/3.60	18.0	122.1	71.3	193.4	894.2	114.41	0.2721	
128-AL3/30-ST1A	125/30	30/2.33	7/2.33	16.3	127.9	29.8	157.8	586.6	71.76	0.2601	400
149-AL3/24-ST1A	150/25	26/2.70	7/2.10	17.1	148.9	24.2	173.1	600.3	72.28	0.2233	445
172-AL3/40-ST1A	170/40	30/2.70	7/2.70	18.9	171.8	40.1	211.8	787.7	96.36	0.1937	490
184-AL3/30-ST1A	185/30	26/3.00	7/2.33	19.0	183.8	29.8	213.6	740.4	88.24	0.1809	505
209-AL3/34-ST1A	210/35	26/3.20	7/2.49	20.3	209.1	34.1	243.2	843.5	100.54	0.1590	555
212-AL3/49-ST1A	210/50	30/3.00	7/3.00	21.0	212.1	49.5	261.5	972.5	118.96	0.1569	575
231-AL3/30-ST1A	230/30	24/3.50	7/2.33	21.0	230.9	29.8	260.8	870.1	102.14	0.1439	595
243-AL3/39-ST1A	240/40	26/3.45	7/2.68	21.8	243.1	39.5	282.5	979.4	116.72	0.1368	605

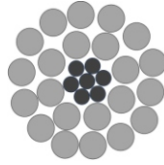
German Standards DIN EN 50182(OLD STANDARD DIN 48 206)

New Code	Old Code	Stranding& Wire Diameter		Overall Diameter	Sectional Area			Approximate Weight	Breaking Load	DC Resistance	Current Rating Capacity
		Aluminum	Steel		Aluminum	Steel	Total				
		mm	mm		mm²	mm²	mm²				
264-AL3/34-ST1A	265/3	5 24/3.74	7/2.49	22.4	263.7	34.1	297.7	993.6	116.64	0.1160	640
304-AL3/49-ST1A	300/50	26/3.86	7/3.00	24.4	304.3	49.5	353.7	1226.4	146.16	0.1092	700
305-AL3/39-ST1A	305/40	54/2.68	7/2.68	24.1	304.6	39.5	344.1	1150.3	134.88	0.1093	700
339-AL3/30-ST1A	340/30	48/3.00	7/2.33	25.0	339.3	29.8	369.1	1170.2	134.12	0.0980	740
382-AL3/49-ST1A	380/50	54/3.00	7/3.00	27.0	381.7	49.5	431.2	1441.4	169.01	0.0872	790
386-AL3/34-ST1A	385/35	48/3.20	7/2.49	26.7	386.0	34.1	420.1	1332.4	152.74	0.0862	800
434-AL3/56-ST1A	435/55	54/3.20	7/3.20	28.8	434.3	56.3	490.6	1640.0	190.04	0.0766	845
449-AL3/39-ST1A	450/40	48/3.45	7/2.68	28.7	448.7	39.5	488.2	1547.7	177.39	0.0741	865
490-AL3/64-ST1A	490/65	54/3.40	7/3.40	30.6	490.3	63.6	553.8	1851.4	214.54	0.0679	905
550-AL3/71-ST1A	550/70	54/3.60	7/3.60	32.4	549.7	71.3	620.9	2075.6	240.52	0.0605	960
562-AL3/49-ST1A	560/50	48/3.86	7/3.00	32.2	561.7	49.5	611.2	1937.8	222.11	0.0592	980
679-AL3/86-ST1A	680/85	54/4.00	19/2.40	63.0	678.6	86.0	764.5	2547.8	298.17	0.0490	1080

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French Standards AACSR Conductor



APPLICATION

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STANDARDS

French Standards 50182(OLD STANDARD NFC34 125)

CONSTRUCTION

Conductor

Aluminum Alloy Wires, concentrically stranded over a central wire/core of Galvanized steel.

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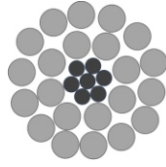
French Standards 50182(OLD STANDARD NFC34 125)

New Code	Old Code	Stranding&Wire Diameter		Overall Diameter	Sectional Area			Approximate Weight	Breaking Load	DC Resistance I	OutLayer Direction
		Aluminium	Steel		Aluminium	Steel	Total				
		mm	mm		mm²	mm²	mm²				
28-AL4/9-ST6C	PHLOX37.3	9*2.00	3*2.00	8.30	26.3	9.4	37.7	151.4	22.86	1.1750	z
38-AL4/22-ST6C	PHLOX59.7	12*2.00	7*2.00	10.0	37.7	22.0	59.7	276.0	44.14	0.8835	s
48-AL4/28-ST6C	PHLOX75.5	12*2.25	7*2.25	11.3	47.7	27.8	75.5	349.3	55.86	0.6981	s
52-AL4/42-ST6C	PHLOX94.1	15*2.10	19*2.10	12.6	52.0	42.1	94.1	474.2	77.96	0.6435	s
57-AL4/60-ST6C	PHLOX116.2	18*2.00	19*2.00	14.0	56.5	59.7	116.2	625.0	104.93	0.5921	s
72-AL4/76-ST6C	PHLOX147.1	18*2.25	19*2.25	15.8	71.6	75.5	147.1	791.0	132.80	0.4678	s
119-AL4/28-ST6C	PASTEL147.1	30*2.25	7*2.25	15.8	119.3	27.8	147.1	547.0	79.12	0.2795	s
88-AL4/93-ST6C	PHLOX181.6	18*2.50	19*2.50	17.5	88.4	93.3	181.6	976.6	160.22	0.3789	s
147-AL4/34-ST6C	PASTEL181.6	30*2.50	7*2.50	17.5	147.3	34.4	181.6	675.3	96.31	0.2264	s
111-AL4/117-ST6C	PHLOX228	18*2.80	19*2.80	19.6	110.8	117.0	227.8	1225.0	200.98	0.3021	s
185-AL4/43-ST6C	PASTEL228	30*2.80	7*2.80	19.6	184.7	43.1	227.8	847.1	120.81	0.1805	s
140-AL4/148-ST6C	PHLOX288	18*3.15	19*3.15	22.1	140.3	148.1	288.3	1550.4	249.93	0.2387	s
234-AL4/55-ST6C	PASTEL288	30*3.15	7*3.15	22.1	233.8	54.6	288.3	1027.1	151.26	0.1426	s
206-AL4/93-ST6C	PASTEL299	42*2.50	19*2.50	22.5	206.2	93.3	299.4	1302.8	198.51	0.1622	s
148-AL4/228-ST6C	PHLOX376	24*2.80	37*2.80	25.2	147.8	227.8	375.6	2202.4	369.27	0.2270	s
326-AL4/86-ST6C	PASTEL412	32*3.60	19*2.40	26.4	325.7	86.0	411.7	1575.1	223.80	0.1025	s
508-AL4/105-ST6C	PETUNIA612	66*3.13	19*2.65	32.0	507.8	104.8	612.6	2225.0	312.81	0.0657	s
717-AL4/148-ST6C	PASTEL865	66*3.72	19*3.15	38.1	717.3	148.1	865.4	3143.2	430.29	0.0465	s
957-AL4/228-ST6C	POLYGONUM 1185	54*2.80	37*2.80	42.0	956.7	227.8	1184	4430.7	632.15	0.349	s

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IEC Standards AACSR Conductor



APPLICATION

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STANDARDS

IEC Standards IEC61089 STANDARD

CONSTRUCTION

Conductor

Aluminum Alloy Wires, concentrically stranded over a central wire/core of Galvanized steel.

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IEC Standards IEC61089 STANDARD

New Code	Stranding& Wire Diameter		Overall Diameter	Sectional Area			Approximate Weight	Breaking Load	DC Resistance
	Aluminum	Steel		Aluminum	Steel	Total			
	mm	mm	mm	mm²	mm²	mm²	kg/km	kN	Ohm/km
16	6/1.98	1/1.98	5.93	18.4	3.07	21.5	74.4	9.02	1.7934
25	6/2.47	1/2.47	7.41	28.8	4.80	33.6	116.2	13.96	1.1478
40	6/3.13	1/3.13	9.38	46.0	7.67	53.7	185.9	22.02	0.7174
63	6/3.92	1/3.92	11.80	72.5	12.10	84.6	292.8	34.68	0.4555
100	18/2.85	1/2.85	14.30	115.0	6.39	121.0	266.4	41.24	0.2880
125	18/3.19	1/6.19	16.00	144.0	7.99	152.0	458.0	51.23	0.2304
125	26/2.65	7/2.06	16.80	144.0	23.40	167.0	579.9	69.86	0.2310
160	18/3.61	1/3.61	18.00	184.0	10.20	294.0	586.2	65.58	0.1800
160	26/3.00	7/2.34	19.00	184.0	30.00	214.0	742.3	88.52	11.805
200	18/4.04	1/4.04	20.02	230.0	12.80	243.0	732.8	81.97	0.1440
200	26/3.36	7/2.61	21.30	230.0	37.50	268.0	927.9	110.64	0.1444
250	22/4.08	7/2.27	23.10	288.0	28.30	316.0	1,013.5	117.09	0.1154
250	26/3.75	7/2.92	23.80	288.0	46.90	335.0	1,159.8	138.31	0.1155
315	45/3.20	7/2.14	25.60	363.0	25.10	388.0	1,196.5	136.28	0.0917
315	26/4.21	7/3.28	26.70	363.0	59.00	422.0	1,461.4	171.90	0.0917
400	45/3.61	7/2.41	28.90	460.0	31.80	492.0	1,519.4	172.10	0.0722
400	54/3.29	7/3.29	29.70	460.6	59.70	520.0	1,738.3	201.46	0.0723
450	45/3.83	7/2.55	30.60	518.0	35.80	554.0	1,709.3	193.61	0.0642
450	54/3.49	7/3.49	31.50	518.0	67.10	585.0	1,955.6	226.64	0.0643
500	45/4.04	7/2.69	32.30	575.0	39.80	615.0	1,899.3	215.12	0.0578

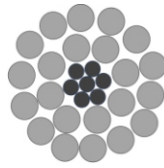
IEC Standards IEC61089 STANDARD

New Code	Stranding& Wire Diameter		Overall Diameter	Sectional Area			Approximate Weight	Breaking Load	DC Resistance
	Aluminum	Steel		Aluminum	Steel	Total			
	mm	mm	mm	mm ²	mm ²	mm ²	kg/km	kN	Ohm/km
500	45/4.04	7/2.69	32.30	575.0	39.80	615.0	1,899.3	215.12	0.0578
500	54/3.68	7/3.68	33.20	575.0	74.60	650.0	2172.9	251.82	0.0578
560	45/4.27	7/2.85	34.20	645.0	44.60	690.0	2,127.2	240.93	0.0516
560	54/3.09	19/2.34	35.10	645.0	81.60	727.0	2,420.9	283.21	0.0516
630	72/3.58	7/2.39	35.80	725.0	31.30	756.0	2,248.0	249.62	0.0459
630	54/4.13	19/2.48	47.20	725.0	91.80	817.0	2,723.5	318.61	0.0459
710	72/3.80	7/2.53	38.00	817.0	35.30	852.0	2,533.4	281.32	0.0407
710	54/4.39	19/2.63	39.50	817.0	104.0	921.0	3,069.4	359.06	0.0407
800	72/4.04	7/2.69	40.40	921.0	39.80	961.0	2,854.6	316.98	0.0361
800	84/3.74	7/3.74	41.10	921.0	76.70	998.0	3,145.1	356.03	0.0361
900	72/4.28	7/2.85	42.80	1,036.0	44.80	1,081.0	3,211.4	356.60	0.0321
900	84/3.96	7/3.96	43.60	1,036.0	86.30	1,122.0	3,538.3	400.53	0.0322
1.000	84/4.28	19/2.51	45.90	1,151.0	93.70	1,245.0	3,916.8	446.37	0.0289
1.120	84/4.42	19/2.65	48.60	1,289.0	105.00	1,394.0	4,386.8	449.93	0.0258

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STANDARDS

American Standards ASTM B711

CONSTRUCTION

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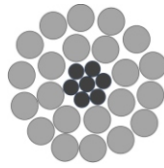
American Standards ASTM B711

Stranding&Wire Diameter		Overall Diameter	Sectional Area			Approximate Weight	Breaking Load
Aluminum	Steel		Aluminum	Steel	Total		
mm	mm	mm	mm ²	mm ²	mm ²	kg/km	kN
26/2.62	7/2.04	16.6	140	23	163	565	75.0
30/2.44	7/2.44	17.1	140	33	173	643	87.4
26/2.80	7/2.18	17.7	160	26	186	646	85.6
30/2.61	7/2.61	18.3	160	38	198	736	106.0
26/2.97	7/2.31	18.8	180	29	209	731	95.1
30/2.76	7/2.76	19.3	180	42	222	823	112.0
26/3.13	7/2.43	19.8	200	32	232	805	106.0
30/2.91	7/2.91	24.4	200	47	247	915	124.0
26/3.31	7/2.57	21.0	224	36	260	901	118.0
30/3.00	7/3.00	21.6	224	52	276	1025	139.0
26/3.50	7/2.72	22.2	250	41	291	1008	129.0
30/3.26	7/3.26	22.8	250	58	308	1149	156.0
26/3.70	7/2.88	23.4	280	46	326	1127	144.0
30/3.45	7/3.45	24.2	280	65	345	1286	171.0
26/3.93	7/3.06	24.9	315	52	367	1272	163.0
30/3.66	19/2.20	25.6	315	72	387	1438	190.0
26/4.17	7/3.24	26.4	355	58	413	1430	183.0
30/3.88	19/2.33	27.2	355	81	436	1614	211.0
26/4.43	7/3.45	28.1	400	65	465	1616	207.0
30/4.12	19/2.47	28.8	400	91	491	1818	237.0
54/3.26	19/1.96	29.5	450	59	509	1706	215.0
54/3.43	19/2.06	30.9	500	63	563	1878	229.0
54/3.63	19/2.18	32.7	560	71	631	2104	257.0
54/3.85	19/2.31	34.6	630	80	710	2365	286.0
54/4.09	19/2.45	36.8	710	90	800	2664	322.0
54/4.34	19/2.60	39.0	800	101	901	3003	363.0
84/3.69	19/2.21	40.6	900	73	973	3060	355.0
84/3.89	19/2.33	42.8	1000	81	1081	3400	391.0
84/4.12	19/2.47	45.3	1120	91	1211	3816	439.0
84/4.35	19/2.61	47.8	1250	102	1352	4255	490.0

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STANDARDS

British Standards BS EN 50182(OLD STANDARD BS 215,Part2:1970)

CONSTRUCTION

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New Code	Old Code	Stranding& Wire Diameter		Overall Diameter	Sectional Area			Approximate Weight	Breaking Load	DC Resistance
		Aluminum	Steel		Aluminum	Steel	Total			
		mm	mm	mm	mm ²	mm ²	mm ²	kg/km	kN	Ohm/km
183-AL5/43-STIA	KEZIAH	30*2.79	7*2.79	19.5	183.4	42.8	226.2	841.6	102.89	0.1740

* These values are given for information only

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.