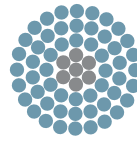
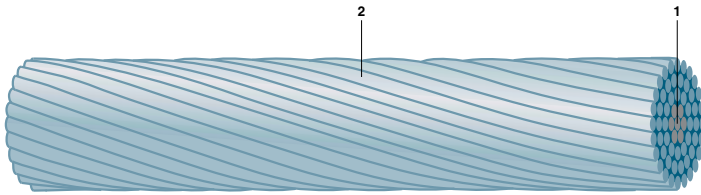


ALUMINIUM CONDUCTORS STEEL REINFORCED (ACSR)



1. Galvanised Steel Core Wires
2. Stranded Aluminium Wires

DESCRIPTION	Aluminium conductors steel reinforced (ACSR) are manufactured to meet the latest revision of the following specification:	
	BS 215 BS EN 50182 IEC 61089 ASTM B232 DIN 48204	
FEATURES	ACSR have been widely used in the field of OH transmission and distribution lines as they possess an ideal combination of conductivity and strength to permit longest possible spans and minimum sag between towers. In corrosive areas like coastal areas, a greased ACSR is used in order to prevent the corrosion due to the contacts between the steel core and the aluminium wires.	
	1. Possibility of optimising tensile strengths and ampacities to match performance and installation criteria. 2. Cost effective solutions for long distance transmission of electrical energy at extra high voltage.	
CONSTRUCTION	Reinforcement core	Stranded galvanized steel core
	Conductor	Stranded Aluminium wires over steel core
APPLICATION	ACSR is used for the transmission of electric power over long distances. It is also used as a messenger to support overhead electrical cables.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Nominal area (mm ²)	Calculated area			Aluminium wires	Steel wires	Overall Diameter		Characteristics			Packaging	
		Aluminium mm ²	Steel mm ²	Complete Conductor mm ²	No. and nominal diameter of wires No. x mm	No. and nominal diameter of wires No. x mm	Steel core mm	Complete conductor mm	Max DC Resistance at 20°C ohms/km	Ampacity amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packaging m±5%
ACSR Conductors to DIN 48204													
WX-201J	16/2.5	15.3	2.55	17.85	6x1.80	1x1.80	1.80	5.40	1.879	95	5.95	62	10000
WX-202J	25/4	23.8	4.00	27.80	6x2.25	1x2.25	2.25	6.80	1.203	126	9.20	97	10000
WX-203J	35/6	34.3	5.70	40.00	6x2.70	1x2.70	2.70	8.10	0.8352	159	12.65	140	7000
WX-204J	44/32	44.0	31.70	75.70	14x2.00	7x2.40	7.20	11.20	0.6573	195	45.00	372	5000
WX-205J	50/8	48.3	8.00	56.30	6x3.20	1x3.20	3.20	9.60	0.5946	197	17.10	196	5000
WX-206J	50/30	51.2	29.80	81.00	12x2.33	7x2.33	6.99	11.70	0.5644	213	43.80	378	5000
WX-207J	70/12	69.9	11.40	81.30	26x1.85	7x1.44	4.32	11.70	0.4130	248	26.80	284	5000
WX-208J	95/15	94.4	15.30	109.70	26x2.15	7x1.67	5.01	13.60	0.3058	300	35.75	383	5000
WX-209J	95/55	96.5	56.30	152.80	12x3.20	7x3.20	9.60	16.00	0.2992	317	79.35	712	5000
WX-210J	105/75	105.7	75.50	181.50	14x3.10	19x2.25	11.25	17.50	0.2736	340	108.45	891	5000
WX-211J	120/20	121.6	19.80	141.40	26x2.44	7x1.90	5.70	15.50	0.2374	352	45.65	494	4000
WX-212J	120/70	122.0	71.30	193.30	12x3.60	7x3.60	10.80	18.00	0.2364	368	100.00	901	4000
WX-213J	125/30	127.9	29.80	157.70	30x2.33	7x2.33	6.99	16.10	0.2259	365	57.60	591	4000
WX-214J	150/25	148.9	24.20	173.10	26x2.70	7x2.10	6.31	17.10	0.1939	400	55.25	605	3500
WX-215J	170/40	171.8	40.10	221.90	30x2.70	7x2.70	8.10	18.90	0.1682	441	76.75	794	3500
WX-216J	185/30	183.8	29.80	213.60	26x3.00	7x2.33	6.99	19.00	0.1571	457	66.20	746	3500
WX-217J	210/35	209.1	34.10	243.20	26x3.20	7x2.49	7.47	20.30	0.1380	495	74.90	850	3000
WX-218J	210/50	212.1	49.50	261.60	30x3.00	7x3.00	9.00	21.21	0.1363	505	93.90	981	3000
WX-219J	230/30	230.9	29.80	260.70	24x3.50	7x2.33	6.99	21.00	0.1249	525	73.10	877	3000
WX-220J	240/40	243.0	39.50	282.50	26x3.45	7x2.68	8.04	21.90	0.1188	544	86.40	987	3000

Catalogue No.	Code Word	Conductor size		Calculated area			Aluminium wires	Steel wires	Nominal Diameter		Characteristics			Packaging	
		Circular mils	AWG	Aluminium mm ²	Steel mm ²	Complete Conductor mm ²	No. and nominal diameter of wires No. x mm	No. and nominal diameter of wires No. x mm	Steel core mm	Complete conductor mm	Max DC Resistance at 20°C ohms/km	Ampacity (Sun - Wind) amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packaging m±5%
ACSR Conductors to ASTM B 232, ASTM B 232M															
BX-18286	Eagle	556500	--	282.00	65.81	347.90	30x3.46	7x3.46	10.38	24.21	0.1030	730	124.00	1298.0	1500
BX-18296	Peacock	605000	--	306.60	39.78	346.40	24x4.03	7x2.69	8.07	24.20	0.0945	760	95.90	1161.0	1500
BX-18306	Squab	605000	--	306.60	49.89	356.50	26x3.87	7x3.01	9.03	24.53	0.0945	760	108.00	1240.0	1500
BX-18316	Wood duck	605000	--	306.60	71.52	378.10	30x3.61	7x3.61	10.82	25.25	0.0947	770	129.00	1411.0	1500
BX-18326	Teal	605000	--	306.60	69.89	376.50	30x3.61	19x2.16	10.82	25.25	0.0947	770	133.00	1399.0	1500
BX-18336	King bird	636000	--	322.30	17.91	340.20	18x4.78	1x4.78	4.78	23.88	0.0894	780	69.80	1027.0	1500
BX-18346	Rook	636000	--	322.30	41.76	364.10	24x4.14	7x2.76	8.27	24.81	0.0899	780	101.00	1219.0	1500
BX-18356	Gross Beak	636000	--	322.30	52.43	374.70	26x3.97	7x3.09	9.27	25.15	0.0899	790	112.00	1302.0	1500
BX-18366	Scoter	636000	--	322.30	75.19	397.50	30x3.70	7x3.70	11.09	25.89	0.0901	790	135.00	1478.0	1500
BX-18376	Egret	636000	--	322.30	73.55	395.80	30x3.70	19x2.22	11.10	25.88	0.0901	790	140.00	1470.0	1500
BX-18386	Swift	636000	--	322.30	8.95	331.10	36x3.38	1x3.38	3.38	23.63	0.0894	790	61.20	958.0	2500
BX-18396	Flamingo	666600	--	337.70	43.78	381.50	24x4.23	7x2.82	8.47	25.40	0.0858	810	106.00	1277.0	1500
BX-18406	Gannet	666600	--	337.70	54.98	392.70	26x4.07	7x3.16	9.49	25.75	0.0858	810	117.00	1364.0	1500
BX-18416	Stilt	715500	--	362.60	46.99	409.60	24x4.39	7x2.92	8.77	26.32	0.0799	850	113.00	1372.0	1500
BX-18426	Starling	715500	--	362.60	59.03	421.60	26x4.21	7x3.28	9.83	26.70	0.0799	850	126.00	1466.0	1500
BX-18436	Redwing	715500	--	362.60	82.58	445.20	30x3.92	19x2.35	11.76	27.46	0.0801	860	154.00	1653.0	1400
BX-18446	Cuckoo	795000	--	402.80	52.19	455.00	24x4.62	7x3.08	9.24	27.73	0.0719	910	124.00	1522.0	1400
BX-18456	Drake	795000	--	402.80	65.61	468.40	26x4.44	7x3.45	10.36	28.14	0.0719	910	140.00	1628.0	1400
BX-18466	Coot	795000	--	402.80	11.19	414.00	36x3.77	1x3.77	3.77	26.42	0.0716	890	74.50	1198.0	2000
BX-18476	Tern	795000	--	402.80	27.84	430.60	45x3.38	7x2.25	6.75	27.00	0.0719	890	98.20	1333.0	1500
BX-18486	Condor	795000	--	402.80	52.19	455.00	54x3.08	7x3.08	9.24	27.42	0.0719	900	125.00	1524.0	1400
BX-18496	Mallard	795000	--	402.80	91.87	494.70	30x4.14	19x2.48	12.41	28.96	0.0721	910	171.00	1838.0	1200
BX-18506	Ruddy	900000	--	456.10	31.54	487.60	45x3.59	7x2.40	7.19	28.74	0.0635	950	109.00	1510.0	1400
BX-18516	Canary	900000	--	456.10	59.10	515.20	54x3.28	7x3.28	9.84	29.51	0.0635	950	142.00	1725.0	1400
BX-18526	Catbird	954000	--	483.40	13.43	496.80	36x4.14	1x4.14	4.14	28.95	0.0596	970	87.90	1437.0	1400
BX-18536	Rail	954000	--	483.40	33.44	516.80	45x3.70	7x2.47	7.40	29.59	0.0599	970	115.00	1600.0	1400
BX-18546	Cardinal	954000	--	483.40	62.65	546.10	54x3.38	7x3.38	10.13	30.38	0.0599	990	150.00	1829.0	1200
BX-18556	Tanager	1033500	--	523.50	14.54	538.00	36x4.30	1x4.30	4.30	30.12	0.0551	1020	95.20	1556.0	1400
BX-18566	Ortolan	1033500	--	523.70	36.18	559.90	45x3.85	7x2.57	7.70	30.78	0.0553	1020	123.00	1734.0	1200
BX-18576	Curfew	1033500	--	523.70	67.87	591.50	54x3.51	7x3.51	10.54	31.62	0.0553	1040	163.00	1981.0	1200
BX-18586	Blue jay	1113000	--	563.90	39.03	602.90	45x4.00	7x2.66	7.99	31.97	0.0514	1070	133.00	1867.0	1200
BX-18596	Finch	1113000	--	563.90	71.55	635.50	54x3.65	19x2.19	10.95	32.84	0.0516	1090	174.00	2129.0	1200
BX-18606	Bunting	1192500	--	604.30	41.76	646.10	45x4.14	7x2.76	8.27	33.08	0.0479	1120	142.00	2000.0	1200
BX-18616	Grackle	1192500	--	604.30	76.58	680.90	54x3.77	19x2.27	11.33	33.99	0.0482	1130	186.00	2281.0	1200
BX-18626	Skylark	1272000	--	643.30	17.87	661.20	36x4.77	1x4.77	4.77	33.40	0.0448	1160	116.70	1917.0	1200
BX-18636	Bittern	1272000	--	644.50	44.57	689.10	45x4.27	7x2.85	8.54	34.16	0.0450	1160	152.00	2134.0	1200
BX-18646	Pheasant	1272000	--	644.50	81.68	726.20	54x3.90	19x2.34	11.70	35.10	0.0452	1180	194.00	2433.0	1200
BX-18656	Dipper	1351500	--	684.80	47.32	732.10	45x4.40	7x2.93	8.80	35.21	0.0423	1210	161.00	2266.0	1200
BX-18666	Martin	1351500	--	684.80	86.71	771.50	54x4.02	19x2.41	12.05	36.17	0.0425	1230	206.00	2585.0	1000
BX-18676	Bobolink	1431000	--	725.10	50.14	775.20	45x4.53	7x3.02	9.06	36.23	0.0400	1250	171.00	2400.0	1000
BX-18686	Plover	1431000	--	725.10	91.87	817.00	54x4.14	19x2.48	12.41	37.21	0.0401	1270	218.00	2738.0	1000
BX-18696	Nuthatch	1510500	--	765.40	52.88	818.30	45x4.65	7x3.10	9.30	37.22	0.0379	1300	178.00	2533.0	1000
BX-18706	Parrot	1510500	--	765.40	96.84	862.20	54x4.25	19x2.55	12.74	38.23	0.0380	1320	230.00	2890.0	1000
BX-18716	Lapwing	1590000	--	805.70	55.69	861.40	45x4.78	7x3.18	9.55	38.20	0.0360	1340	188.00	2666.0	1000
BX-18726	Falcon	1590000	--	805.70	102.10	907.80	54x4.36	19x2.62	13.08	39.24	0.0361	1360	242.00	3041.0	1000