

# ASTM B911

## Twisted Pair Conductor ACSR (TP-ACSR)

### ACSR Twisted Pair Conductor (ACSR/TP)



**Construction:** ACSR Twisted Pair Conductor is fabricated from two component conductors of the same size twisted around each other with a left-hand lay. The component conductor is stranded concentrically by aluminum wires with galvanized steel wire(s) in center for reinforcement.



**Application:** The ACSR Twisted Pair Conductor is used for MV, HV and EHV overhead, long distance transmission and distribution, especially suitable for overhead applications subject to aeolian vibration and galloping due to wind.



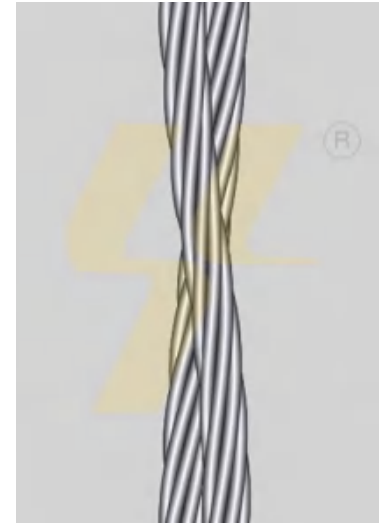
**Operating Temperature:** Max permissible continuous operating temperature of conductor shall not exceed 90°C.



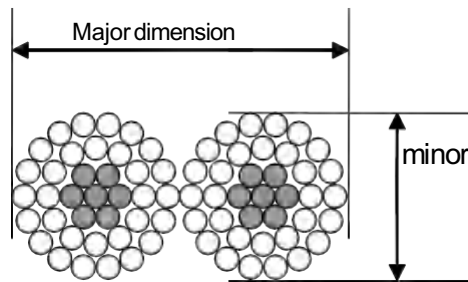
**Standard:** ASTM B911, or other standards required by customers.



**Packing:** steel/wooden reel, wooden reel or steel reel.



### Construction of ACSR Twisted Pair Conductor



### ACSR Twisted Pair Conductor American Standard ASTM B911

Code Word	Size AWG or kcmil	Component Composition			Outer Dimensions in.	
		AWG or kcmil	Al	Steel	Minor	Major
Swan/TP	1	4	6×0.0834	1×0.0834	0.250	0.500
Swanate/TP	1	4	7×0.0772	1×0.1029	0.257	0.514
Swallow/TP	1/0	3	6×0.0937	1×0.0937	0.281	0.562
Sparrow/TP	2/0	2	6×0.1052	1×0.1052	0.316	0.632
Sparate/TP	2/0	2	7×0.0974	1×0.1299	0.325	0.650
Robin/TP	3/0	1	6×0.1181	1×0.1181	0.354	0.708
Raven/TP	4/0	1/0	6×0.1327	1×0.1327	0.398	0.796
Quail/TP	266.2	2/0	6×0.1489	1×0.1489	0.447	0.894
Pigeon/TP	335.6	3/0	6×0.1672	6×0.1672	0.502	1.004
Penguin/TP	423.2	4/0	6×0.1878	1×0.1878	0.563	1.126
Jaeger/TP	456.4	228.2	18×0.1126	1×0.1126	0.563	1.126
Waxwing/TP	533.6	266.8	18×0.1217	1×0.1217	0.609	1.218
Spoonbill/TP	533.6	266.8	22×0.1101	7×0.0612	0.624	1.248
Scaup/TP	533.6	266.8	24×0.1054	7×0.0703	0.633	1.266
Partridge/TP	533.6	266.8	26×0.1013	7×0.0788	0.642	1.284

# ASTM B911

## Twisted Pair Conductor ACSR (TP-ACSR)

<b>Junco/TP</b>	<b>533.6</b>	<b>266.8</b>	<b>30×0.0943</b>	<b>7×0.0943</b>	<b>0.660</b>	<b>1.320</b>
<b>Ostrich/TP</b>	<b>600.0</b>	<b>300.0</b>	<b>26×0.1074</b>	<b>7×0.0835</b>	<b>0.680</b>	<b>1.360</b>
Merlin/TP	672.8	336.4	18×0.1367	1×0.1367	0.683	1.366
Trogon/TP	672.8	336.4	20×0.1297	7×0.0576	0.692	1.384
Woodcock/TP	672.8	336.4	22×0.1237	7×0.0687	0.701	1.402
Widgeon/TP	672.8	336.4	24×0.1184	7×0.0789	0.710	1.420
Linnet/TP	672.8	336.4	26×0.1137	7×0.0884	0.720	1.440
Oriole/TP	672.8	336.4	30×0.1059	7×0.1059	0.741	1.482
Chickadee/TP	795.0	397.5	18×0.1486	1×0.1486	0.743	1.486
Flicker/TP	954.0	477.0	24×0.1410	7×0.0940	0.846	1.692
Hawk/TP	954.0	477.0	26×0.1354	7×0.1053	0.858	1.716
Hen/TP	954.0	477.0	30×0.1261	7×0.1261	0.883	1.766
Heron/TP	1000.0	500.0	30×0.1291	7×0.1291	0.904	1.808
Nightingale/TP	1034.0	517.0	18×0.1694	1×0.1694	0.848	1.696
Creeper/TP	1034.0	517.0	20×0.1607	7×0.0714	0.858	1.716
Osprey/TP	1113.0	556.5	18×0.1758	1×0.1758	0.879	1.758
Tody/TP	1113.0	556.5	20×0.1666	7×0.0741	0.890	1.780
Sapsucker/TP	1113.0	556.5	22×0.1590	7×0.0883	0.901	1.802
Parakeet/TP	1113.0	556.5	24×0.1523	7×0.1015	0.914	1.828
Dove/TP	1113.0	556.5	26×0.1463	7×0.1138	0.927	1.854
Eagle/TP	1113.0	556.5	30×0.1362	7×0.1362	0.953	1.906
Kittiwake/TP	1192.0	596.0	18×0.1820	1×0.1820	0.910	1.820
Skua/TP	1210.0	605.0	20×0.1739	7×0.0773	0.928	1.856
Peacock/TP	1210.0	605.0	24×0.1588	7×0.1059	0.953	1.906
Squab/TP	1210.0	605.0	26×0.1525	7×0.1186	0.966	1.932
Wood Duck/TP	1210.0	605.0	30×0.1420	7×0.1420	0.994	1.988
Teal/TP	1210.0	605.0	30×0.1420	19×0.0852	0.994	1.988
Swift/TP	1272.0	636.0	36×0.1329	1×0.1329	0.930	1.860
Kingbird/TP	1272.0	636.0	18×0.1880	1×0.1880	0.940	1.880
Tuacos/TP	1272.0	636.0	20×0.1783	7×0.0792	0.951	1.902
Rook/TP	1272.0	636.0	24×0.1628	7×0.1085	0.977	1.954
Grosbeak/TP	1272.0	636.0	26×0.1564	7×0.1215	0.990	1.980
Scoter/TP	1272.0	636.0	30×0.1456	7×0.1456	1.019	2.038
Egret/TP	1272.0	636.0	30×0.1456	19×0.0874	1.019	2.038
Siskin/TP	1333.2	666.6	20×0.1826	7×0.0812	0.974	1.948
Flamingo/TP	1333.2	666.6	24×0.1667	7×0.1111	1.000	2.000
Gannet/TP	1333.2	666.6	26×0.1601	7×0.1245	1.014	2.028
Dunlin/TP	1431.0	715.5	20×0.1891	7×0.0840	1.008	2.016
Stilt/TP	1431.0	715.5	24×0.1727	7×0.1151	1.036	2.072
Starling/TP	1431.0	715.5	26×0.1659	7×0.1290	1.051	2.102
Redwing/TP	1431.0	715.5	30×0.1544	19×0.0926	1.081	2.162
Coot/TP	1590.0	795.0	36×0.1486	1×0.1486	1.040	2.080
Macaw/TP	1590.0	795.0	42×0.1376	7×0.0764	1.055	2.110
Turbit/TP	1590.0	795.0	20×0.1994	7×0.0886	1.063	2.126

# ASTM B911

## Twisted Pair Conductor ACSR (TP-ACSR)

Tern/TP	1590.0	795.0	45×0.1329	7×0.0886	1.063	2.126
Puffin/TP	1590.0	795.0	22×0.1901	7×0.1056	1.077	2.154
Cuckoo/TP	1590.0	795.0	24×0.1820	7×0.1213	1.092	2.184
Condor/TP	1590.0	795.0	54×0.1213	7×0.1213	1.092	2.184
Drake/TP	1590.0	795.0	26×0.1749	7×0.1360	1.108	2.216
Mallard/TP	1590.0	795.0	30×0.1628	19×0.0977	1.140	2.280
Surfbird/TP	1749.0	874.5	20×0.2091	7×0.0929	1.115	2.230
Tumstone/TP	1800.0	900.0	20×0.2121	7×0.0943	1.131	2.262
Ruddy/TP	1800.0	900.0	45×0.1414	7×0.0943	1.131	2.262
Canary/TP	1800.0	900.0	54×0.1291	7×0.1291	1.162	2.324
Catbird/TP	1908.0	954.0	36×0.1628	1×0.1628	1.140	2.280
Phoenix/TP	1908.0	954.0	42×0.1507	7×0.0387	1.155	2.310
Corncrake/TP	1908.0	954.0	20×0.2184	7×0.0971	1.165	2.330
Rail/TP	1908.0	954.0	45×0.1456	7×0.0971	1.165	2.330
Towhee/TP	1908.0	954.0	48×0.1410	7×0.1097	1.175	2.350
Redbird/TP	1908.0	954.0	24×0.1994	7×0.1329	1.196	2.392
Cardinal/TP	1908.0	954.0	54×0.1329	7×0.1329	1.196	2.392
Canvasback/TP	1908.0	954.0	30×0.1783	19×0.1070	1.248	2.497
Snowbird/TP	2067.0	1033.5	42×0.1569	7×0.0872	1.203	2.406
Ortolan/TP	2067.0	1033.5	45×0.1515	7×0.1010	1.212	2.424
Whooper/TP	2067.0	1033.5	48×0.1467	7×0.1141	1.223	2.446
Curlew/TP	2067.0	1033.5	54×0.1383	7×0.1383	1.245	2.490
Avocet/TP	2226.0	1113.0	42×0.1628	7×0.0904	1.248	2.496
Bluejay/TP	2226.0	1113.0	45×0.1573	7×0.1049	1.259	2.518
Bullfinch/TP	2226.0	1113.0	48×0.1523	7×0.1185	1.269	2.538
Finch/TP	2226.0	1113.0	54×0.1436	19×0.0862	1.293	2.586