

# BARE COPPER WIRE

## TROLLEY WIRE-BRONZE

### DESCRIPTIONS:

Single conductor, solid bronze, having a hard drawn temper, made in the configuration of: round, grooved, or figure 9.

### APPLICATIONS:

Trolley wire is used as an overhead power source for electric railroad locomotives, cranes, light rail transit systems, and underground mining motor cars.

### STANDARDS:

ASTM B-9

PWC Catalog #	Nominal Conductor Size	Overall Diameter*		Area			Weight			Tensile Strength Minimum		Resistance (68F-20C)			Min. Breaking Strength	
		Inches	Milli-meters	Circular MILS	Square Inches	Square Milli-meters	Pounds Per 1000 Ft	Pounds Per Mile	KG Per KM	Lbs. Per Square Inch	KGF Per SQ.MM	OHMS Per 1000 FT	OHMS Per Mi.	OHMS Per KM	POUNDS	Kilo-grams
<b>ROUND – ALLOY 55</b>																
01-0553	1/0 AWG	.3249	8.252	105,600	.0829	53.5	319.5	1,687	475	76,000	53.4	.1786	.94301	.58608	6,301	2,858
01-0555	2/0 AWG	.3648	9.266	133,100	.1045	67.4	402.8	2,127	599	73,000	51.3	.1417	.74818	.46500	7,630	3,461
01-0557	3/0 AWG	.4096	10.404	167,800	.1318	85.0	507.8	2,681	755	71,000	49.9	.1124	.59347	.36884	9,356	4,244
01-0559	4/0 AWG	.4600	11.861	211,600	.1662	107.2	640.5	3,382	953	69,000	48.5	.0891	.47050	.29242	11,470	5,203
01-0561	300 MCM	.5477	13.911	300,000	.2356	152.0	908.0	4,794	1,350	64,800	45.6	.0628	.33191	.20628	15,270	6,926
<b>ROUND – ALLOY 80</b>																
01-0563	1/0 AWG	.3249	8.252	105,600	.0829	53.5	319.5	1,687	475	76,000	50.6	.1228	.64838	.40297	5,969	2,708
01-0565	2/0 AWG	.3648	9.266	133,100	.1045	67.4	402.8	2,127	599	69,000	48.5	.0974	.51438	.31869	7,212	3,271
01-0567	3/0 AWG	.4096	10.404	167,800	.1318	85.0	507.8	2,681	755	67,000	47.1	.0772	.40799	.25357	8,828	4,004
01-0569	4/0 AWG	.4600	11.861	211,600	.1662	107.2	640.5	3,382	953	65,000	45.7	.0612	.32351	.20106	10,800	4,899
01-0571	300 MCM	.5477	13.911	300,000	.2356	152.0	908.0	4,794	1,350	61,500	43.2	.0432	.22820	.14183	14,490	6,573
<b>GROOVED – ALLOY 55</b>																
01-0573	2/0 AWG	.392	9.957	137,900	.1083	69.9	417.4	2,204	621	73,000	51.3	.1367	.72178	.44859	7,906	3,586
01-0575	3/0 AWG	.430	10.922	167,300	.1314	84.8	506.4	2,674	753	71,000	49.9	.1127	.59506	.36983	9,329	4,232
01-0577	4/0 AWG	.482	12.243	212,000	.1665	107.4	641.7	3,388	955	69,000	48.5	.0889	.46966	.29190	11,490	5,212
01-0579	300 MCM	.574	14.580	299,800	.2355	151.9	907.5	4,792	1,350	64,800	45.6	.0629	.33211	.20641	15,260	6,922
01-0581	350 MCM	.620	15.748	351,200	.2578	166.3	1063.0	5,613	1,582	62,500	43.9	.0536	.28348	.17618	17,240	7,820
<b>GROOVED – ALLOY 80</b>																
01-0583	2/0 AWG	.392	9.957	137,900	.1083	69.9	417.4	2,204	621	69,000	48.5	.0940	.49637	.30850	7,473	3,390
01-0585	3/0 AWG	.430	10.922	167,300	.1314	84.8	506.4	2,674	753	67,000	47.1	.0774	.40915	.25429	8,804	3,993
01-0587	4/0 AWG	.482	12.243	212,000	.1665	107.4	641.7	3,388	955	65,000	45.7	.0611	.32287	.20067	10,820	4,908
01-0589	300 MCM	.574	14.580	299,800	.2355	151.9	907.5	4,792	1,350	61,500	43.2	.0432	.22831	.14190	14,480	6,568
01-0591	350 MCM	.620	15.748	351,200	.2578	166.3	1063.0	5,613	1,582	59,500	41.8	.0369	.19488	.12112	16,410	7,414
<b>FIGURE 9 – ALLOY 55</b>																
01-0593	335 MCM	.680X.482	17.3X12.2	336,400	.2642	170.4	1018.0	5,377	1,515	61,500	43.2	.05605	.29594	.18393	16,250	7,371
<b>FIGURE 9 – ALLOY 80</b>																
01-0595	335 MCM	.680X.482	17.3X12.2	336,400	.2642	170.4	1018.0	5,377	1,515	56,800	39.9	.03854	.20349	.12647	15,010	6,809

> Information on this sheet is subject to change without notice. All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.