



# Triplex Copper XLPE Service Drop Neutral - Messenger

Copper Conductors With Crosslinked Polyethylene Insulation.



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compressed copper
2. **Insulation:** Cross Linked Polyethylene (XLPE)
3. **Messenger:** Hard Drawn Copper

## APPLICATIONS AND FEATURES:

Primarily used for 120 volt overhead service applications such as street lighting, outdoor lighting, and temporary service for construction. To be used at voltages of 600 volts phase-to-phase or less and at conductor temperatures not to exceed 90°C for crosslinked polyethylene (XLP) insulated conductors.

## SPECIFICATIONS:

- ASTM B1 Hard-Drawn Copper
- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ICEA S-76-474 Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600V



**Table 1 – Weights and Measurements**

Stock Number	Code Word	Phase Cond. Size	Phase Strand	Dia. Over Phase Conductor	Phase Insul. Thickness	Dia. Over Phase Insulation	Neutral Cond. Size	Neutral Strand	Approx. OD	Approx. Weight
		AWG/Kcmil	No.	inch	mil	inch	AWG/Kcmil	No.	inch	lb/1000ft
TBA	Columbian	8	Solid	0.128	30	0.188	8	1	0.408	237
TBA	Garamond	8	7	0.141	30	0.201	8	7	0.436	240
TBA	Bodoni	8	7	0.141	30	0.201	8	1	0.436	240
TBA	Gothic	6	7	0.177	30	0.237	6	7	0.514	370
TBA	Tudor	6	7	0.177	30	0.237	8	1	0.514	340
110718	Futura	6	7	0.177	30	0.237	6	1	0.578	270
TBA	Ionic	4	7	0.225	30	0.285	4	1	0.618	577
110759	Caslon	4	7	0.225	30	0.285	4	7	0.680	423
110734	Nonpareil	4	7	0.225	30	0.285	6	1	0.680	373
324640	Century	2	7	0.282	45	0.372	2	7	0.805	660
110775	Primer	2	7	0.282	45	0.372	4	7	0.805	584
110767	Minion	2	7	0.282	45	0.372	4	1	0.805	582
110791	Corinthian	1/0	19	0.361	60	0.481	1/0	7	1.041	1053
110809	Doric	2/0	19	0.405	60	0.525	2/0	7	1.136	1317
110825	Composite	4/0	19	0.512	60	0.632	4/0	7	1.365	2069

All dimensions are nominal and subject to normal manufacturing tolerances

**Table 2 – Electrical and Engineering Data**

Code Word	Phase Cond. Size	Neutral Rated Breaking Strength	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	GMR	Allowable Ampacity In Air 90°C
	AWG/Kcmil	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	ft	Amp
Columbian	8	826	0.653	0.786	0.052	0.004	70 / 80
Garamond	8	777	0.653	0.786	0.052	0.004	70 / 80
Bodoni	8	826	0.653	0.786	0.052	0.004	70 / 80
Gothic	6	1228	0.411	0.495	0.051	0.005	95 / 105
Tudor	6	826	0.411	0.495	0.051	0.005	95 / 105
Futura	6	1280	0.411	0.495	0.051	0.005	95 / 105
Ionic	4	1970	0.258	0.310	0.048	0.007	125 / 140
Caslon	4	1938	0.258	0.310	0.048	0.007	125 / 140
Nonpareil	4	1280	0.258	0.310	0.048	0.007	125 / 140
Century	2	3050	0.162	0.195	0.045	0.008	170 / 190
Primer	2	1938	0.162	0.195	0.045	0.008	170 / 190
Minion	2	1970	0.162	0.195	0.045	0.008	170 / 190
Corinthian	1/0	4752	0.102	0.122	0.044	0.011	230 / 260
Doric	2/0	5926	0.081	0.097	0.043	0.013	265 / 300
Composite	4/0	5926	0.051	0.062	0.041	0.016	360 / 405