

# 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 Standard Specification for 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



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**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. Weight
		AWG/Kcmil	No.	inch	mil	inch	AWG/Kcmil	No.	lb/1000ft
TBA	Columbian	8	1	0.129	45	0.219	8	1	171
TBA	Garamond	8	7	0.146	45	0.236	8	7	177
TBA	Bodoni	8	7	0.146	45	0.236	8	1	176
TBA	Pica	8	7	0.146	45	0.236	10	1	158
TBA	Gothic	6	7	0.184	45	0.274	6	7	273
110718	Futura	6	7	0.184	45	0.274	6	1	272
TBA	Tudor	6	7	0.184	45	0.274	8	1	242
TBA	Caslon	4	7	0.232	45	0.322	4	7	425
TBA	Ionic	4	7	0.232	45	0.322	4	1	422
110734	Nonpareil	4	7	0.232	45	0.322	6	1	375
324640	Century	2	7	0.292	45	0.382	2	7	664
110775	Primer	2	7	0.292	45	0.382	4	7	588
TBA	Minion	2	7	0.292	45	0.382	4	1	585
110791	Corinthian	1/0	19	0.368	60	0.488	1/0	7	1055
110809	Doric	2/0	19	0.414	60	0.534	2/0	7	1319
110825	Composite	4/0	19	0.512	60	0.632	4/0	7	2069

All dimensions are nominal and subject to normal manufacturing tolerances

**Table 2 – Electrical and Engineering Data**

Stock Number	Code Word	Phase Cond. Size	Neutral Rated Breaking Strength	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	GMR	Allowable Ampacity In Air 90°C
		AWG/Kcmil	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	ft	Amp
TBA	Columbian	8	826	0.65	0.799	0.0338	0.0054	85
TBA	Garamond	8	777	0.662	0.815	0.0339	0.0068	85
TBA	Bodoni	8	826	0.662	0.815	0.0339	0.0066	85
TBA	Pica	8	529	0.662	0.815	0.0339	0.0053	85
TBA	Gothic	6	1228	0.416	0.512	0.0327	0.0108	110
110718	Futura	6	1280	0.416	0.512	0.0327	0.0107	110
TBA	Tudor	6	826	0.416	0.512	0.0327	0.0086	110
TBA	Caslon	4	1938	0.262	0.322	0.031	0.0139	145
TBA	Ionic	4	1970	0.262	0.322	0.031	0.0122	145
110734	Nonpareil	4	1280	0.262	0.322	0.031	0.0121	145
324640	Century	2	3050	0.165	0.202	0.03	0.0205	195
110775	Primer	2	1938	0.165	0.202	0.03	0.0204	195
TBA	Minion	2	1970	0.165	0.202	0.03	0.0157	195
110791	Corinthian	1/0	4752	0.103	0.127	0.029	0.0206	265
110809	Doric	2/0	5926	0.082	0.101	0.029	0.0207	300
110825	Composite	4/0	5926	0.082	0.101	0.029	0.0207	335

