

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



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com

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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	0.178	45	0.268	6	7	273
110718	Futura	6	7	0.178	45	0.268	6	1	271
TBA	Tudor	6	7	0.178	45	0.268	8	1	242
110759	Caslon	4	7	0.225	45	0.315	4	7	425
TBA	Ionic	4	7	0.225	45	0.315	4	1	422
110734	Nonpareil	4	7	0.225	45	0.315	6	1	375
324640	Century	2	7	0.283	45	0.373	2	7	664
110775	Primer	2	7	0.283	45	0.373	4	7	585
110767	Minion	2	7	0.283	45	0.373	4	1	582
110791	Corinthian	1/0	19	0.362	60	0.482	1/0	7	1053
110809	Doric	2/0	19	0.406	60	0.526	2/0	7	1318
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

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	0.65	0.799	0.0338	0.0054	85
Garamond	8	777	0.662	0.815	0.0339	0.0068	85
Bodoni	8	826	0.662	0.815	0.0339	0.0066	85
Pica	8	529	0.662	0.815	0.0339	0.0053	85
Gothic	6	1228	0.416	0.512	0.0327	0.0108	110
Futura	6	1280	0.416	0.512	0.0327	0.0107	110
Tudor	6	826	0.416	0.512	0.0327	0.0086	110
Caslon	4	1938	0.262	0.322	0.031	0.0139	145
Ionic	4	1970	0.262	0.322	0.031	0.0122	145
Nonpareil	4	1280	0.262	0.322	0.031	0.0121	145
Century	2	3050	0.165	0.202	0.03	0.0205	195
Primer	2	1938	0.165	0.202	0.03	0.0204	195
Minion	2	1970	0.165	0.202	0.03	0.0157	195
Corinthian	1/0	4752	0.103	0.127	0.029	0.0206	265
Doric	2/0	5926	0.082	0.101	0.029	0.0207	300
Composite	4/0	5926	0.082	0.101	0.029	0.0207	335

