



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

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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 75/90°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 |

