Twin Parallel 600 Volt USE-2 Underground Service Entrance

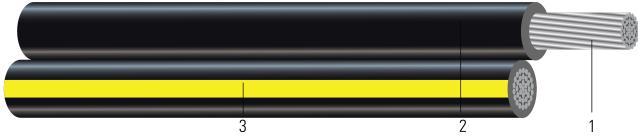


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- 1. Conductor: Conductors are stranded, compressed 1350-H16/H26 (3/4 Hard) aluminum
- 2. **Insulation:** Cross Linked Polyethylene (XLPE)
- 3. **Neutral:** Cross Linked Polyethylene (XLPE) with three Yellow Extruded Stripes (YES)

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APPLICATIONS AND FEATURES:

Conductors are stranded, compressed 1350-H16/H26 (3/4 Hard) aluminum, insulated with cross-linked polyethylene. Neutrals are identified by three yellow extruded stripes. Cables with "YES" neutrals have sequential footage markers. Conductors are durably surface printed for identification. One-phase conductor and one neutral conductor are twin paralleled. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions. UL listed as USE-2 per UL 854 Service-Entrance Cables.

SPECIFICATIONS:

- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B609 Standard Specification for Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes
- ASTM B901 Standard Specification for Compressed Round Stranded Aluminum Conductors Using Single Input Wire Construction. (The number of strands for both phase and neutral may differ)
- UL 854 Service Entrance Cable
- ICEA S-105-692 Standard For 600 Volt Single Layer Thermoset Insulated Utility Underground Distribution Cables



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 | Neutral Insul. Thickness | Approx. OD | Approx. Weight |
|-----------------|--------------|------------------------|-----------------|------------------------------|---------------------------|-------------------------------|-----------------------|-------------------|-----------------------------|---------------|-------------------|
| | | AWG/ Kcmil | No. | inch | mil | inch | AWG/Kcmil | No. | mil | inch | lb/1000ft |
| TBA | Cleary | 8 | Solid | 0.128 | 60 | 0.248 | 8 | 0 | 60 | 0.498 | 100 |
| TBA | Biscayne | 8 | 7 | 0.141 | 60 | 0.261 | 8 | 7 | 60 | 0.524 | 104 |
| TBA | Kean | 6 | 7 | 0.177 | 60 | 0.297 | 6 | 7 | 60 | 0.596 | 145 |
| TBA | Gavilan | 4 | 7 | 0.225 | 60 | 0.345 | 4 | 7 | 60 | 0.692 | 206 |
| TBA | Atlus | 2 | 7 | 0.282 | 60 | 0.402 | 2 | 7 | 61 | 0.806 | 299 |

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Electrical and Engineering Data

| Code Word | Phase Cond. Size | Min Bending Radius | Max Pull Tension | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | Allowable Ampacity in Duct or Buried 75/90°C |
|--------------|---------------------|-----------------------|---------------------|-------------------------|-------------------------|-------------------------------|--|
| | AWG/Kcmil | inch | lb | Ω/1000ft | Ω/1000ft | Ω/1000ft | Amp |
| Cleary | 8 | 2.0 | 198 | 0.653 | 0.786 | 0.052 | 40 / 45 |
| Biscayne | 8 | 2.1 | 198 | 1.071 | 1.290 | 0.052 | 40 / 45 |
| Kean | 6 | 2.4 | 314 | 0.674 | 0.812 | 0.051 | 50 / 55 |
| Gavilan | 4 | 2.8 | 500 | 0.424 | 0.511 | 0.048 | 65 / 75 |
| Atlus | 2 | 3.2 | 796 | 0.266 | 0.320 | 0.045 | 90 / 100 |

Notes:

- 1. Inductive reactance assumes cables are cradled in conduit, and the neutral is carrying no current.
- 2. Triple parallel inductive reactance calculation assumes the phase conductors are adjacent to one another.
- 3. Conductors assumed to be reverse lay stranded, compressed construction.
- 4. Phase spacing assumes cables are touching.
- 5. Resistances shown are for the Phase conductors only.
- 6. Ampacity based on 90°C conductor temperature, 20°C ambient, RHO 90, 100% load factor.



^{1.} The actual number of strands may differ for single input wire per ASTM B901

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.