

Customer Specification

PART NO. M39161

Construction

| | | | | | | Diameters (In) | |
|-----------------------|---------------|------|---------------|------|---------------|--|--|
| 1) Component 1 | | | | | | 9 X 1 PAIR | |
| a) Conductor | | | | | | 18 (19/30) AWG Tinned Copper | |
| b) Insulation | | | | | | 0.016" Wall, Nom. PVC | |
| (1) Color Code | | | | | | Alpha Wire Color Code BR | |
| Pair | Color | Pair | Color | Pair | Color | | |
| 1 | BLACK#1-RED#1 | 4 | BLACK#4-RED#4 | 7 | BLACK#7-RED#7 | | |
| 2 | BLACK#2-RED#2 | 5 | BLACK#5-RED#5 | 8 | BLACK#8-RED#8 | | |
| 3 | BLACK#3-RED#3 | 6 | BLACK#6-RED#6 | 9 | BLACK#9-RED#9 | | |
| c) Pair | | | | | | 2/Cond Cabled Together | |
| (1) Twists: | | | | | | 5.3 Twists/foot (min) | |
| Individually Applied: | | | | | | | |
| d) Shield: | | | | | | Foil Free Alum/Mylar Tape, 25% Overlap, Min. | |
| (1) Foil Direction | | | | | | Foil Facing In | |
| (2) Drain Wire | | | | | | 20 (19/32) AWG Tinned Copper | |
| 2) Cable Assembly | | | | | | 9 Components Cabled | |
| a) Twists: | | | | | | 1.5 Twists/foot (min) | |
| b) Orientation: | | | | | | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER | |
| c) Core Wrap | | | | | | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) Jacket | | | | | | 0.063" Wall, Nom.,PVC | |
| a) Color(s) | | | | | | SLATE | |
| b) Print | | | | | | ALPHA WIRE-* P/N M39161 9PR 18 AWG SHIELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CL3 105C OR C(UL) CMG 105C FT4 CE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> | |

Applicable Specifications

| | | |
|----------------------|-------------------------------------|-------|
| 1) UL | ITC | 105°C |
| | SUN RES | |
| | PLTC | 105°C |
| | CL3 | 105°C |
| 2) CSA International | C(UL) TYPE CMG | 105°C |
| 3) CE: | EU Low Voltage Directive 2014/35/EU | |

Environmental

| | |
|--|---|
| 1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3): | |
| | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item. |
| 2) REACH Regulation (EC 1907/2006): | |
| | This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. |

Properties

| Physical & Mechanical Properties | |
|---|-----------------------------|
| 1) Temperature Range | -20 to 105°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 355 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties | |
| (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Mutual Capacitance | 52 pF/ft @1 kHz, Nominal |
| 3) Ground Capacitance | 94 pF/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 41 Ω |
| 5) Inductance | 0.17 μH/ft, Nominal |
| 6) Conductor DCR | 6 Ω/1000ft @20°C, Nominal |
| 7) Component Shield DCR | 7.8 Ω/1000ft @20°C, Nominal |

Other

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| |
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| Packaging | Flange x Traverse x Barrel (inches) |
|------------------------|---|
| a) 1000 FT | 30 x 14 x 12 Continuous length |
| b) 500 FT | 24 x 14 x 12 Continuous length |
| c) 100 FT | 18 x 9 x 8 Continuous length |
| d) Bulk(Made-to-order) | |
| | <i>[Spool dimensions may vary slightly]</i> |

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