

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6458
Page 1 of 2 Pages

Issue: 1
Issue Date: 5/20/2008
Effective Date: 5/20/2008

A. Construction

Diameters

- | | | | |
|----|---------------|--------------------------------------|-------|
| 1) | Component 1 | 1 X 1 COAX | |
| | a) Conductor | 18 (SOLID) AWG BCW | |
| | b) Insulation | 0.069" Wall, Nom. Polyethylene, Foam | 0.178 |
| | (1) Color(s) | | |
-
- | Cond | Color | Cond | Color | Cond | Color |
|------|---------|------|-------|------|-------|
| 1 | NATURAL | | | | |
-
- | | | | |
|----|-------------|--|----------------|
| c) | Cabling | 1 COAX Cabled | |
| | d) Shield: | A/P/A Tape, 25% Overlap, Min. | |
| | (1) Braid | AL,60% Coverage, Min. | |
| 2) | Shield: | A/P/A Tape, 25% Overlap, Min. | |
| | a) Braid | AL,40% Coverage, Min. | |
| 3) | Jacket | 0.0245" Wall, Nom.,PVC | 0.298+/- 0.005 |
| | a) Color(s) | BLACK | |
| | b) Print | ALPHA WIRE P/N 6458
RG-6/U TYPE 75C QUAD SHIELD 1C18 CONTROLNET(TM)
CABLE EXXXXX (UL) CL2R OR CMR OR C(UL) CMG | |

B. Industry Approvals

- | | | | |
|----|--------------------------------|-------------------------|------|
| 1) | UL | CMR | 75°C |
| | | CL2R | 75°C |
| 2) | CSA International | CMG | 75°C |
| | | FT4 | |
| 3) | Military | MIL-C-17D/ RG 6/U TYPE | |
| 4) | Other | ALLEN BRADLEY / AB 1786 | |
| 5) | EU Directive 2002/95/EC(RoHS): | | |

All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.

C. Physical & Mechanical Properties

- | | | |
|----|-------------------|--------------------|
| 1) | Temperature Range | -30 to 75°C |
| 2) | Bend Radius | 10X Cable Diameter |
| 3) | Pull Tension | 20.1 Lbs, Maximum |

D. Electrical Properties

- (For Engineering purposes only)
- | | | |
|----|---------------------------|---|
| 1) | Voltage Rating | 300 V _{RMS} |
| 2) | Characteristic Impedance | 75 Ω +/- 3 |
| 3) | Inductance | 0.097 μH/ft, Nominal |
| 4) | Ground Capacitance | 16.2 pf/ft @1 kHz, Nominal |
| 5) | Velocity of Propagation | 82 % |
| 6) | Conductor DCR | 28 Ω/1000ft @20°C, Nominal |
| 7) | OA Shield DCR | 3.6 Ω/1000ft @20°C, Nominal |
| 8) | SRL | 23 db, Minimum, 5 – 50 Mhz |
| 9) | Attenuation, Max dB/100ft | 0.35 @ 1 MHz
0.38 @ 2 MHz
0.45 @ 5 MHz
0.59 @ 10 MHz
0.86 @ 20 MHz
1.37 @ 50 MHz |

E. Other

- | | |
|----|------------|
| 1) | Packaging |
| | a) 1000 FT |
| | b) 500 FT |

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c) 100 FT

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