

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: M8706020
Page 1 of 1 Pages

Issue: 3
Issue Date: 2/16/2009
Effective Date: 2/16/2009

A. Construction

Diameters (In)

- 1) Component 1 2 X 1 PAIR
 - a) Conductor 16 (7/.0192) AWG BC
 - b) Insulation 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON 0.100
 - (1) Print ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY
(ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)
 - (2) Color Code Alpha Wire Company Color Code BW

Pair	Color	Pair	Color	Pair	Color
1	BLACK-WHITE#1	2	BLACK-WHITE#2		

- c) Pair 2/Cond Cabled Together
 - (1) Twists: 4.0 Twists/foot (min)
- 2) Cable Assembly 2 Components Cabled
 - a) Twists: 2.5 Twists/foot (min)
 - b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
- 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.
 - a) Foil Direction Foil Facing In
 - b) Drain Wire 18 (7/.0152) AWG TC
- 4) Jacket 0.050" Wall, Nom.,PVC 0.435 (0.458 Max.)
 - a) Color(s) BLACK
 - b) Ripcord 1 End 810 Denier Nylon
 - c) Print ALPHA WIRE-* P/N M8706020 2PR 16 AWG
EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET
SUN. RES. DIR. BUR. ROHS
* = Factory Code

B. Industry Approvals

- 1) UL TC 90°C / 600 VRMS
SUN RES
DIRECT BURIAL
- 2) 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 -20 to 90°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 94 Lbs, Maximum
- 4) Sunlight Resistance Yes
- 5) Direct Burial Yes

D. Electrical Properties

(For Engineering purposes only)

- 1) Voltage Rating 600 VRMS
- 2) Mutual Capacitance 40 pf/ft @1 kHz, Nominal
- 3) Ground Capacitance 72 pf/ft @1 kHz, Nominal
- 4) Characteristic Impedance 52 Ω
- 5) Inductance 0.18 μH/ft, Nominal
- 6) Conductor DCR 4.2 Ω/1000ft @20°C, Nominal
- 7) OA Shield DCR 5.6 Ω/1000ft @20°C, Nominal

E. Other

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

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

**ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION**

Part Number: M8706020
Page 2 of 1 Pages

Issue: 3
Issue Date: 2/16/2009
Effective Date: 2/16/2009

- c) 100 FT
- d) Bulk(Made-to-order)

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.