

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 1299/20C**  
**Page 1 of 2 Pages**

**Issue: 4**  
**Issue Date: 5/19/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters**

- 1) Component 1 20 X 1 COND  
a) Conductor 22 (7/30) AWG TC  
b) Insulation 0.010" Wall, Nom. PVC 0.050  
(1) Color Code Alpha Wire Color Code D

Cond	Color	Cond	Color	Cond	Color
1	BLACK	8	YELLOW	15	RED/BLACK
2	RED	9	VIOLET	16	WHITE/BLACK
3	WHITE	10	GRAY	17	WHITE/RED
4	GREEN	11	PINK	18	WHITE/GREEN
5	ORANGE	12	TAN	19	WHITE/YELLOW
6	BLUE	13	RED/GREEN	20	WHITE/BLUE
7	BROWN	14	RED/YELLOW		

- 2) Cable Assembly 20 Components Cabled  
a) Twists: 3.2 Twists/foot (min)  
3) Shield: Alum/Mylar Tape, 25% Overlap, Min.  
a) Foil Direction Foil Facing Out  
b) Drain Wire 22 (7/30) AWG TC  
4) Jacket 0.032" Wall, Nom., PVC 0.330 (0.348 Max.)  
a) Color(s) GRAY  
b) Print ALPHA WIRE-\* P/N 1299/20C 20/C 22 AWG  
SHIELDED 75C (UL) TYPE CM OR AWM 2576 --- LLXXXXXX  
CSA TYPE CMG FT4 ROHS  
\* = Factory Code

*[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]*

**B. Industry Approvals**

- 1) UL AWM/STYLE2576 80°C / 150V  
CM 75°C  
VW-1  
2) CSA International CMG 60°C  
FT4  
3) 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.  
4) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

**C. Physical & Mechanical Properties**

- 1) Temperature Range -20 to 80°C  
2) Bend Radius 10X Cable Diameter  
3) Pull Tension 115 Lbs, Maximum

**D. Electrical Properties**

- (For Engineering purposes only)  
1) Voltage Rating 300 V<sub>RMS</sub>  
2) Capacitance 50 pf/ft @1 kHz, Nominal Conductor to Conductor  
3) Ground Capacitance 90 pf/ft @1 kHz, Nominal  
4) Inductance 0.18 µH/ft, Nominal  
5) Conductor DCR 16.5 Ω/1000ft @20°C, Nominal  
6) OA Shield DCR 10.4 Ω/1000ft @20°C, Nominal

**E. Other**

- 1) Packaging

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.  
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- a) 1000 FT
- b) 500 FT
- c) 100 FT

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