



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. 1243/3C

Construction

				Diameters (In)	
1) Component 1		1 X 1 COND			
a) Conductor		20 (7/28) AWG TC		0.038	
b) Insulation		0.014" Wall, Nom. Polyethylene(PE)		0.066	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	WHITE				
2) Component 2		1 X 2 COND			
a) Conductor		20 (7/28) AWG TC		0.038	
b) Insulation		0.014" Wall, Nom. Polyethylene(PE)		0.066	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		
c) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing Out			
(2) Drain Wire		20 (7/28) AWG TC			
3) Cable Assembly		3 Components Cabled			
a) Twists:		6.0 Twists/foot (min)			
4) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In			
5) Jacket		0.030" Wall, Nom.,PVC		0.210 (0.223 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 1243/3C 3C 20 AWG SHIELDED 75C (UL) TYPE CM --- LLXXXXXX CSA TYPE CMG FT4 * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

Applicable Specifications

1) UL	CM	75°C
2) CSA International	CMG	60°C
	FT4	

Environmental

1) 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.
2) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	35 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Component 1	
a) Ground Capacitance	63 pf/ft @1 kHz, Nominal
b) Inductance	0.05 μH/ft, Nominal
c) Conductor DCR	10.2 /1000ft @20°C, Nominal
d) OA Shield DCR	42 /1000ft @20°C, Nominal
3) Component 2	
a) Capacitance	24.3 pf/ft @1 kHz, Nominal Conductor to Conductor
b) Ground Capacitance	43.74 pf/ft @1 kHz, Nominal
c) Characteristic Impedance	63
d) Inductance	0.18 μH/ft, Nominal
e) Conductor DCR	10.2 /1000ft @20°C, Nominal
f) Component Shield DCR	8.2 /1000ft @20°C, Nominal
g) OA Shield DCR	42 /1000ft @20°C, Nominal

Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742)

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there 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 had 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 | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:1243/3C

1243/3C , RoHS-Compliant Commencing With3/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
Including Deca-BDE	0.1% by weight (1000 ppm)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering &QA

1/20/2011