

Customer Specification

PART NO. 1243/3C

Construction

						Diameters ("in")	
1) Component 1						1 X 1 COND	
a) Conductor						20 (7/28) AWG Tinned Copper	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 Tinned Copper	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) Cabling						2 COND Cabled	
(1) Twists						6.9 Twists/foot (min)	
(2) Orientation						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
d) Shield:						Alum/Mylar Tape, 25% Overlap, Min.	
(1) Foil Direction						Foil Facing Out	
(2) Drain Wire						20 (7/28) AWG Tinned Copper	
3) Cable Assembly						2 Components Cabled	
a) Twists:						5.3 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
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 1C 20 AWG 2C 20 AWG SHIELDED 75C (UL) TYPE CM --- LLXXXXXX CSA TYPE CMG 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	CM	75°C
2) CSA International	CMG	60°C
	FT4	
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.
3) California Proposition 65	
	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more detail.

Properties

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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	0.034 μH/ft, Nominal
c) Conductor DCR	10.2 ω/1000ft @20°C, Nominal
d) OA Shield DCR	42 ω/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 ω
d) Inductance	0.18 μH/ft, Nominal
e) Conductor DCR	10.2 ω/1000ft @20°C, Nominal
f) Component Shield DCR	8.2 ω/1000ft @20°C, Nominal
g) OA Shield DCR	42 ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10.5 x 5 Continuous length
b) 500 FT	12 x 5.94 x 5 Continuous length
c) 100 FT	6.5 x 4 x 2.5 Continuous length
d) Bulk (made-to-order)	
	<i>Spool dimensions may vary slightly.</i>
Note	
a) Certain put-ups are for special order only.	

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 1243/3C

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

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

Substance

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% 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) , Including Deca-BDE	0.1% by weight (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/1/2025

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