

Customer Specification PART NO. 86506CY

Construction

			Diameters (In)			
1) Component 1		6 X 1 PAIR	6 X 1 PAIR			
a) Conductor		26 (7/34) AWG TC	26 (7/34) AWG TC		0.019	
b) Insulation		0.010" Wall, Nom. I	0.010" Wall, Nom. PVC, Semi Rigid		0.039	
(1) Color Code		Alpha Wire Compa	Alpha Wire Company Color Code A			
Pair	Color	Pair	Color	Pair	Color	
1	BLACK-RED	3	BLACK-GREEN	5	BLACK-BROWN	
2	BLACK-WHITE	4	BLACK-BLUE	6	BLACK-YELLOW	
c) Pair		2/Cond Cabled Tog	2/Cond Cabled Together			
(1) Twists:		12.0 Twists/foot (m	12.0 Twists/foot (min)			
2) Cable Assembly		6 Components Cab	6 Components Cabled			
a) Twists:		5.3 Twists/foot (mir	5.3 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyeste	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		Flex Alum/Mylar Ta	Flex Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Out	Foil Facing Out			
b) Drain Wire		26 (7/34) AWG TC	26 (7/34) AWG TC			
c) Braid		TC,85% Coverage,	TC,85% Coverage, Min.			
4) Jacket		0.040" Wall, Nom.,I	0.040" Wall, Nom.,PVC		0.313+/- 0.017	
a) Color(s)		SLATE	SLATE			
b) Jacket Separator		Tissue Tape, 25%	Tissue Tape, 25% Overlap, Min.			
c) Print		XTRAGUARD(R) C (UL) 105C TYPE C 105C 300V LLX 300V CE ROHS * = Factory Code				

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V _{RMS}
b) Overall		105°C / 300 V _{RMS}
	СМ	105°C
2) CSA International	AWM I/II A/B	105°C / 300 V _{RMS}
	C(UL) TYPE CMG	105°C
	FT4	
3) CE:	LVD 73/23/EEC Amendment 93/68/EEC	

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	-10 to 105°C(static), +5 to 105°C (dynamic)	
2) Bend Radius	10X Cable Diameter(static), 15X Cable Diameter(dynamic)	
3) Pull Tension	35 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	21.4 pf/ft @1 kHz, Nominal	
3) Ground Capacitance	39 pf/ft @1 kHz, Nominal	
4) Characteristic Impedance	89	
5) Inductance	0.2 μH/ft, Nominal	
6) Conductor DCR	42 /1000ft @20°C, Nominal	
7) OA Shield DCR	2.6 /1000ft @20°C, Nominal	

Other

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

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:86506CY

86506CY, RoHS-Compliant Commencing With8/1/2005Production

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) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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