



Customer Specification

PART NO. M9740160

Construction					

							Pt(12)	
1) Commonwell							Diameters (In)	
1) Component 1							16 X 1 PAIR	
a) Conductor							20 (7/.0121) AWG Bare Copper	0.036
b) Insulation							0.016" Wall, Nom. PVC	0.068
(1) Print							ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)	
(2) C	olor Code						Alpha Wire Color Code BW	
Pair	Color	Pair	Color	Pair	Col	lor		
1	BLACK- WHITE#1	7	BLACK- WHITE#7	13		ACK- HITE#13		
2	BLACK- WHITE#2	8	BLACK- WHITE#8	14		ACK- HITE#14		
3	BLACK- WHITE#3	9	BLACK- WHITE#9	15		ACK- HITE#15		
4	BLACK- WHITE#4	10	BLACK- WHITE#10	16	BLA	ACK- HITE#16		
5	BLACK- WHITE#5	11	BLACK- WHITE#11					
6	BLACK- WHITE#6	12	BLACK- WHITE#12					
c) Pai			17.1112"12				2/Cond Cabled Together	
(1) Tv							6.0 Twists/foot (min)	
`	idually Applie	 d:						
d) Sh							Foil Free Alum/Mylar Tape, 25% Overlap, Min.	
	oil Direction						Foil Facing In	
(2) D	rain Wire						22 (7/30) AWG Tinned Copper	
2) Co	mponent 2						1 X 1 COND	
a) Co	nductor						22 (7/30) AWG Bare Copper	0.030
b) Ins	sulation						0.016" Wall, Nom. PVC	0.062
(1) C	olor(s)							
Cond	d Color	Со	nd Colo	Cor	nd	Color		
1	ORANGE							
3) Cable Assembly					17 Components Cabled			
a) Tw	vists:						1.4 Twists/foot (min)	
b) Or	ientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Co	re Wrap						Clear Mylar Tape, 25% Overlap, Min.	
4) Sh	ield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction							Foil Facing In	
b) Drain Wire							22 (7/30) AWG Tinned Copper	
5) Jacket							0.063" Wall, Nom.,PVC	0.724 (0.753 Max.)
a) Color(s)							BLACK	
b) Ripcord							1 End 810 Denier Nylon	
c) Print							ALPHA WIRE-* P/N M9740160 16PR 20 AWG 1C 22 AWG SHIELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CL3 105C OR C(UL) CMG 105C FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	
							apon plant of manafacture.	J

Applicable Specifications

1) UL	CL3	105°C	
	PLTC	105°C	
	ITC	105°C	
	SUN RES		
2) CSA International	C(UL) TYPE CMG	105°C	
	FT4		
3) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

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.
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.
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 information.

Properties					

Physical & Mechanical Properties				
1) Temperature Range	-20 to 105°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	356 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Component 1				
a) Mutual Capacitance	42 pF/ft @1 kHz, Nominal			
b) Ground Capacitance	76 pF/ft @1 kHz, Nominal			
c) Characteristic Impedance	51 Ω			
d) Inductance	0.19 μH/ft, Nominal			
e) Conductor DCR	10.6 Ω/1000ft @20°C, Nominal			
f) Component Shield DCR	13.8 Ω/1000ft @20°C, Nominal			
g) OA Shield DCR	8.3 Ω/1000ft @20°C, Nominal			
3) Component 2				
a) Ground Capacitance	94 pF/ft @1 kHz, Nominal			
b) Inductance	0.044 μH/ft, Nominal			
c) Conductor DCR	15.4 Ω/1000ft @20°C, Nominal			
d) OA Shield DCR	8.3 Ω/1000ft @20°C, Nominal			

Other

Flange x Traverse x Barrel (inches)		
36 x 14 x 12 Continuous length		
30 x 14 x 12 Continuous length		
18 x 9 x 8 Continuous length		
[Spool dimensions may vary slightly]		
	36 x 14 x 12 Continuous length 30 x 14 x 12 Continuous length 18 x 9 x 8 Continuous length	

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M9740160

M9740160, RoHS-Compliant Commencing With 7/1/2005 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	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)

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:

Dave Watson, Director of Engineering 4/2/2025

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