

## **Customer Specification**

PART NO. M9700040

Construction

							Diameters (In)	
1) Co	mponent 1						4 X 1 PAIR	·
a) Conductor							20 (7/.0121) AWG Bare Copper	0.036
b) Ins	ulation						0.016" Wall, Nom. PVC	0.068
(1) Pr	int						ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)	
(2) Cc	olor Code						Alpha Wire Color Code BW	_
Pair	Color	Pair	Color		Pair	Color		
1	BLACK- WHITE#1	3	BLACK- WHITE#3					
2	BLACK- WHITE#2	4	BLACK- WHITE#4					
c) Pai	r						2/Cond Cabled Together	
(1) Tv	/ists:						6.0 Twists/foot (min)	
2) Co	mponent 2						1 X 1 COND	
a) Co	nductor						22 (7/30) AWG Bare Copper	0.030
b) Ins	ulation			_			0.016" Wall, Nom. PVC	0.062
(1) Cc	olor(s)							
Conc		Cond	Color	Con	d C	Color		
1	ORANGE							
	ble Assembly						5 Components Cabled 2.8 Twists/foot (min)	
a) Tw							Components to be arranged from INSIDE LAYER to	
	ientation:						OUTSIDE LAYER	
c) Co	re Wrap						Clear Mylar Tape, 25% Overlap, Min.	
4) Shield:							Alum/Mylar Tape, 25% Overlap, Min.	
I	l Direction						Foil Facing In	
b) Dra	ain Wire						22 (7/30) AWG Tinned Copper	
5) Jac	ket						0.053" Wall, Nom.,PVC	0.400 (0.418 Max.)
a) Col							BLACK	
b) Rip	cord						1 End 810 Denier Nylon	
c) Prir	nt						ALPHA WIRE-* P/N M9700040 4PR 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.]	

# 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	75 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Component 1		
a) Mutual Capacitance	35 pF/ft @1 kHz, Nominal	
b) Ground Capacitance	63 pF/ft @1 kHz, Nominal	
c) Characteristic Impedance	65 Ω	
d) Inductance	0.19 μH/ft, Nominal	
e) Conductor DCR	10.6 Ω/1000ft @20°C, Nominal	
f) OA Shield DCR	10.3 Ω/1000ft @20°C, Nominal	
3) Component 2		
a) Ground Capacitance	107 pF/ft @1 kHz, Nominal	
b) Inductance	0.044 μH/ft, Nominal	
c) Conductor DCR	15.3 Ω/1000ft @20°C, Nominal	
d) OA Shield DCR	10.3 Ω/1000ft @20°C, Nominal	

#### Other

25 x 8 Continuous length
8 Continuous length
4 x 5 Continuous length
limensions may vary slightly]

#### www.alphawire.com

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Alpha Wire 000040

М9700040000RoHS0000 2006/1/1 00000

DDDD Lead Mercury Cadmium Hexavalent Chromium Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE Bis(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) Disobutyl phthalate (DIBP) 

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