



Customer Specification

PART NO. M4650

C	Construction				

						Diameters (In)	
1) Component 1					40 X 1 COND		
a) Conductor						22 (7/30) AWG Tinned Copper	0.030
b) Insulation						0.010" Wall, Nom. PVC, Semi Rigid	0.050
(1) Col	or Code					Alpha Wire Color Code E	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	15	WHITE/YEI	29	WHITE/BR(
2	BROWN	16	WHITE/GR	30	WHITE/BR(
3	RED	17	WHITE/BLI	31	WHITE/BR(
4	ORANGE	18	WHITE/VIC	32	WHITE/BR(
5	YELLOW	19	WHITE/SL/	33	WHITE/BR(
6	GREEN	20	WHITE/BL/	34	WHITE/BR(
7	BLUE	21	WHITE/BL/	35	WHITE/REC		
8	VIOLET	22	WHITE/BL/	36	WHITE/REC		
9	SLATE	23	WHITE/BL/	37	WHITE/REC		
10	WHITE	24	WHITE/BL/	38	WHITE/RED		
11	WHITE/BL	25	WHITE/BL/	39	WHITE/RED		
12	WHITE/BR	26	WHITE/BL/	40	WHITE/RED		
13	WHITE/RE	27	WHITE/BL/				
14	WHITE/OR	28	WHITE/BR				
2) Cabl	e Assembly					40 Components Cabled	
a) Twists:					2.3 Twists/foot (min)		
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core	Wrap					Clear Mylar Tape, 20% Overlap, Min.	
3) Shie	ld:					Alum/Mylar Tape, 20% Overlap, Min.	
a) Foil	Direction					Foil Facing In	
b) Drai	n Wire					22 (7/30) AWG Tinned Copper	
4) Jack	et					0.032" Wall, Nom.,PVC	0.436 (0.459 Max.)
a) Color(s)					SLATE		
b) Ripcord					1 End 810 Denier Nylon		
c) Print					ALPHA WIRE-* P/N M4650 40C 22 AWG EXXXXXX SHIELDED 75C CMG (UL) C(UL) OR AWM 2464 CE ROHS * = Factory Code		
					[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]		

Applicable Specifications

1) UL	AWM/STYLE 2464	80°C / 300 V _{RMS}
	CMG	75°C
2) CSA International	FT4	
	C(UL) TYPE CMG	75°C
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 information.

Properties

Physical & Mechanical Properties		
1) Temperature Range	-20 to 80°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	225 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Capacitance	35 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	63 pF/ft @1 kHz, Nominal	
4) Inductance	0.18 μH/ft, Nominal	
5) Conductor DCR	16.5 Ω/1000ft @20°C, Nominal	
6) OA Shield DCR	9.2 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	24 x 14 x 12 Continuous length	
b) 500 FT	18 x 9 x 8 Continuous length	
c) 100 FT	12 x 5.94 x 5 Continuous length	
d) Bulk(Made-to-order)		
[Spool dimensions may vary slightly]		
	[Espool dimensions may vary slightly]	

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Lead Mercury □□□□□□□□0.1% (1000 ppm) Cadmium Hexavalent Chromium □□□□□□□□0.1% (1000 ppm) Polybrominated Biphenyls (PBB) □□□□□□□□0.1% (1000 ppm) Polybrominated Diphenyl Ethers (PBDE), □□□□□□□□0.1% (1000 ppm) Including Deca-BDE Bis(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP)

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