2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

Customer Specification

PART NO. 6453

Construction

					Diameter ("in")	
1) Component 1					1 x 1 PAIR	
a) Conductor					22 (7/30) AWG Tinned Copper	0.030
b) Insulation					0.0285" Wall, Nom. Foam HDPE	0.087
(1) Color(s)						
Pair	Color	Pair	Color	Pair	Color	
1	WHITE/BLUE-BLUE/WHITE					
c) Cabling					2 COND Cabled	
(1) Twists					4.4 Twists/ft. (min.)	
(2) Orientation					Components to be arranged from INSIDE LAYER-to-OUTSIDE LAYER	
2) Shield					Alum/Mylar Tape, 25% Overlap (min.)	
a) Foil Direction					Foil Facing Out	
b) Drain Wire					22 (7/30) AWG Tinned Copper	
c) Braid					Tinned Copper, 65% Coverage (min.)	
3) Jacket					0.042" Wall, Nom., PVC	0.284 (0.297 max.)
a) Color(s)					BLACK	
b) Print					ALPHA WIRE-* P/N 6453 1PR 22 AWG EXXXXX SHIELDED (UL) CM OR PLTC SUN RES OR C(UL) CM --- FT1 CE ROHS * = Factory Code *Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.*	

Applicable Specifications

1) UL	PLTC	60°C
	CM	60°C
	SUN RES	
2) CSA International	CM	60°C
	FT1	
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.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 60°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	20.5 lbs. max.
Electrical Properties	*Engineering purposes only*
1) Voltage Rating	300 V_{RMS}
2) Characteristic Impedance	120 ω +/- 10
3) Mutual Capacitance	11 pF/ft. @1 kHz, Nominal
4) Ground Capacitance	20.9 pF/ft. @1 kHz, Nominal
5) Velocity of Propagation	78%
6) Conductor DCR	15.1 ω/1000ft. @20°C, Nominal
7) OA Shield DCR	4.3 ω/1000ft. @20°C, Nominal
8) Current	2.7 amps per conductor @30°C (max.)
9) Attenuation, Max dB/100ft	0.5 @1 MHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 5000 FT	30 x 14 x 12 Continuous Length
b) 1500 FT	18 x 14.25 x 8 Continuous Length
c) 1000 FT	18 x 9 x 8 Continuous Length
d) 500 FT	12 x 10.5 x 5 Continuous Length
e) 100 FT	10.5 x 5 x 3.5 Continuous Length
	Spool dimensions may vary slightly.
Note:	
a) EIA Industrial RS485 cable	

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Lead	□□□□□□□□□0.1% (1000 ppm)
Mercury	□□□□□□□□□0.1% (1000 ppm)
Cadmium	□□□□□□□□□0.01% (100 ppm)
Hexavalent Chromium	□□□□□□□□□0.1% (1000 ppm)
Polybrominated Biphenyls (PBB)	□□□□□□□□□0.1% (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE	□□□□□□□□□0.1% (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	□□□□□□□□□0.1% (1000 ppm)
Butyl benzyl phthalate (BBP)	□□□□□□□□□0.1% (1000 ppm)
Dibutyl phthalate (DBP)	□□□□□□□□□0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	□□□□□□□□□0.1% (1000 ppm)

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