

**Ratings**

Voltage: 30 V  
 Temperature: -10° to 80° C  
 Flammability: VW-1, FT1

**Conductor**

Conductor count: 4 (1 twisted pair, 2 single conductors)  
 Gauge: 28 AWG, 0.089 mm<sup>2</sup>  
 Material: tinned copper strands  
 Strand size:  $\varnothing 0.13 \times 7$   
 Max Resistance at 20 °C: 239  $\Omega$ /km

**Insulator**

Material: HD-PE (1P), SR-PVC (2C)  
 Color: white, green (1P), black, red (2C)  
 Diameter:  $\varnothing 0.85 \pm 0.15$  mm  
 Nominal thickness: 0.22 mm (1P), 0.24 mm (2C)  
 Resistance at 20 °C: 100 M $\Omega$ /km (1P), 10 M $\Omega$ /km (2C)

**Shield**

Type: foil + braided  
 Material: aluminum mylar, tinned copper strands  
 Stranding: 16/5/  $\varnothing 0.10$  mm  
 Coverage: 100% (foil), 65% minimum (braid)

**Drain**

Material: tinned copper strands  
 Stranding:  $\varnothing 0.13 \times 7$

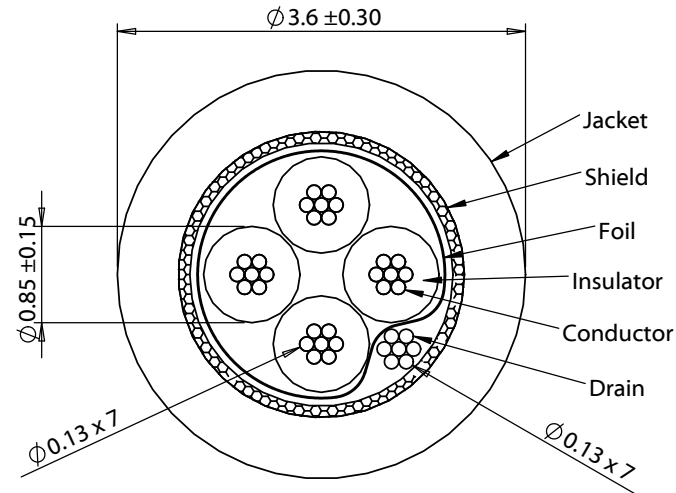
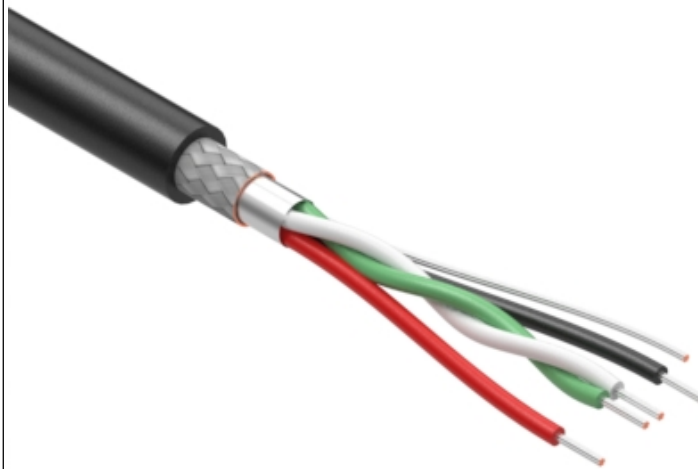
**Outer jacket**

Material: PVC/79A  
 Color: Black  
 Diameter:  $\varnothing 3.6 \pm 0.30$  mm  
 Nominal thickness: 0.65 mm

**Wire marking:** E339579 UL AWM STYLE 2725  
 28AWG/1P+28AWG/2C 80°C 30V VW-1 --- cUL AWM  
 28AWG/1P+28AWG/2C I/II A 80°C 30V FT1 HIGH SPEED  
 USB 2.0 TENSILITY

**Tests**

Jacket tensile strength: 1.05 kgf/mm<sup>2</sup>  
 HD-PE Insulator tensile strength: 1.69 kgf/mm<sup>2</sup>  
 SR-PVC Insulator tensile strength: 2.11 kgf/mm<sup>2</sup>  
 After aging at 113  $\pm 2$  °C for 7 days:  
 Minimum jacket tensile strength 70 % original  
 Minimum jacket elongation 65 % original  
 Minimum HD-PE insulator tensile strength 75 % original  
 Minimum HD-PE insulator elongation 75 % original  
 Minimum SR-PVC insulator tensile strength 70 % original  
 Minimum SR-PVC insulator elongation 70 % original  
 Heat shock: 121  $\pm 1$  °C /1 hour, no observed degradation  
 Deformation: 121  $\pm 1$  °C /1 hour,  $\leq 50$  %  
 Cold bend: -10  $\pm 2$  °C /4 hour, no observed cracking  
 Dielectric test: 1500 Vac for 1 minute without breakdown



Revision:	Date:	Description:	Prepared:	Notes:	<b>TENSILITY</b> tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	8/23/2011	Initial release	Verified:	RoHS and REACH compliant	
A1	8/19/2013	updated wire marking and diameter	Dimensions are in millimeters. Tolerances: X: $\pm 0.5$ mm X.X: $\pm 0.3$ mm X.XX: $\pm 0.05$ mm	Function test: no open, no short circuit, no intermittent	Size: Part number: A 30-00088
A2	1/27/2014	corrected shield type		Description:	
A3	10/21/2015	updated format and tolerances		Wire, 4C, 1PR + 2C, 28 AWG, UL2725, 30V, 80C, 3.6 mm, shielded, VW-1, PVC, 79A, USB 2.0	Sheet 1 of 1
A4	12/22/2016	updated format and wire specs			