

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 mm²
 Material: tinned copper strands
 Strand size: $\varnothing 0.13 \times 7$
 Max Resistance at 20° C: 239 Ω /km

Insulator

Material: HD-PE (1P), SR-PVC/35P (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 Ω /km (1P), 10 M Ω /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: $\varnothing 0.13 \times 7$

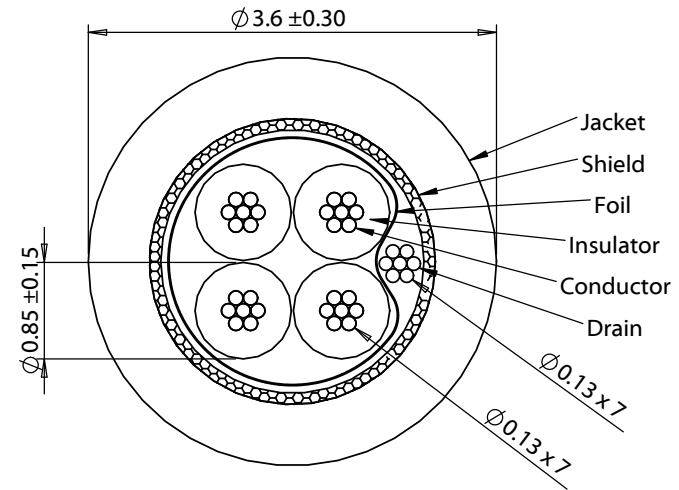
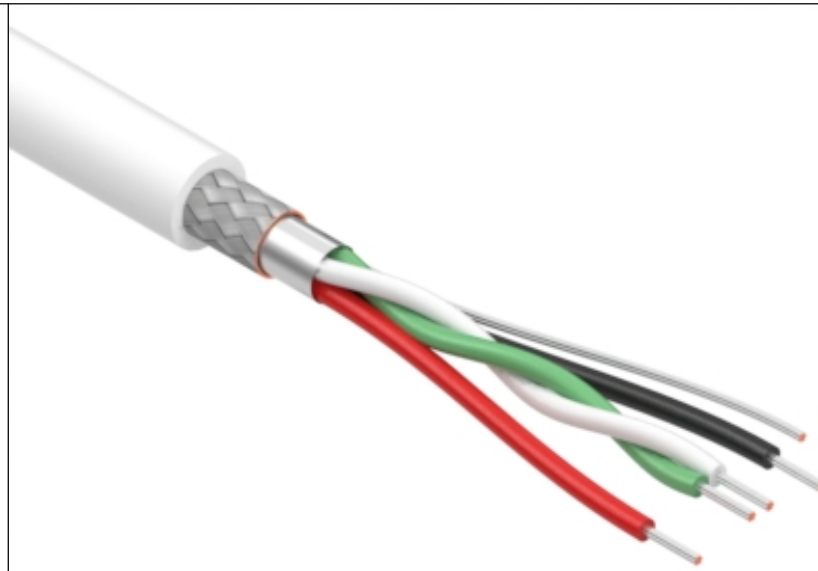
Outer jacket

Material: PVC/79A
 Color: white
 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 300V FT1 HIGH SPEED
 USB 2.0 TENSILITY

Tests

Jacket tensile strength: 1.05 kgf/mm²
 HD-PE Insulator tensile strength: 1.69 kgf/mm²
 SR-PVC Insulator tensile strength: 2.11 kgf/mm²
 After aging at 113 ± 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 ± 1 °C / 1 hour, no observed degradation
 Deformation: 121 ± 1 °C / 1 hour, ≤ 50 %
 Cold bend: -10 ± 2 °C / 4 hour, no observed cracking
 Dielectric test: 1500 Vac for 1 minute without breakdown



Revision:	Date:	Description:	Prepared:	Notes:	<h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</p>
A	9/21/2011	Initial release	Verified:	RoHS and REACH compliant	
A1	8/19/2013	updated wire marking	Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Function test: no open, no short circuit, no intermittent	Size: A Part number: 30-00099
A2	1/29/2014	corrected shield type		Description: Wire, 4C, 1PR + 2C, 28 AWG, UL2725, 30V, 80C, 3.6mm, shielded, VW-1, PVC, 79A, USB 2.0, white	
A3	10/21/2015	updated format and tolerances			
A4	12/22/2016	updates format and wire specs			Sheet 1 of 1