

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 (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: $\varnothing 0.13 \times 7$

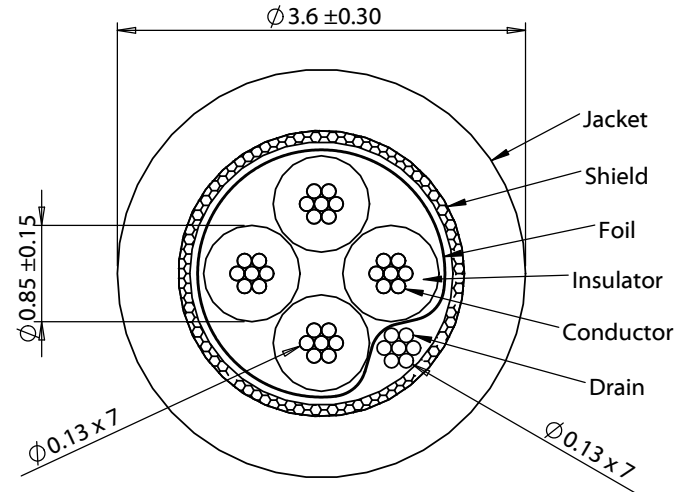
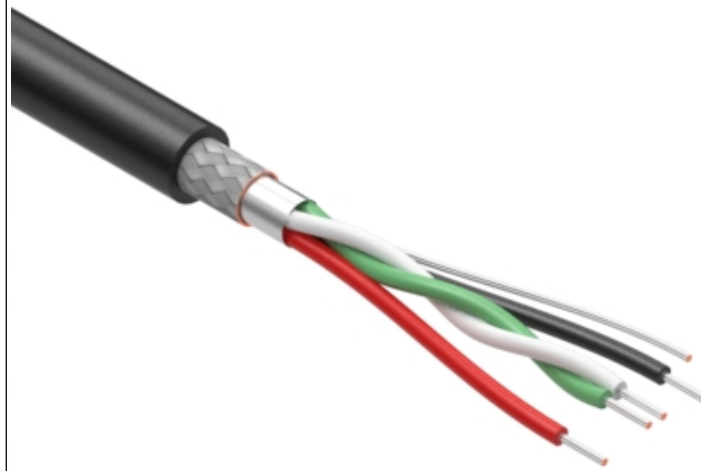
Outer jacket

Material: PVC/79A
 Color: 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/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:
A	8/23/2011	Initial release
A1	8/19/2013	updated wire marking and diameter
A2	1/27/2014	corrected shield type
A3	10/21/2015	updated format and tolerances
A4	12/22/2016	updated format and wire specs

Prepared:
AG
Digitally signed by AG
 Date: 2017.11.07
 10:03:10 -08'00'

Verified:
AW
Digitally signed by AW
 Date: 2018.01.26 09:19:21
 -08'00'

Dimensions are in millimeters.
 Tolerances:
 X: ± 0.5 mm
 X.X: ± 0.3 mm
 X.XX: ± 0.05 mm

Notes:
 RoHS and REACH compliant

Function test: no open, no short circuit, no intermittent

Description:
 Wire, 4C, 1PR + 2C, 28 AWG, UL2725, 30V, 80C, 3.6 mm, shielded, VW-1, PVC, 79A, USB 2.0

TENSILITY

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Size: A	Part number: 30-00088
Scale: 15:1	Sheet 1 of 1