

Ratings

Voltage: 300 V
 Temperature: -40 ~80 °C
 Flammability: FT2

Conductor

Conductor count: 4
 Gauge: 18 AWG 0.82 mm²
 Material: bare copper strands
 Strand size: $\phi 0.127 \times 65$
 Max resistance at 20 °C: 23.2 Ω /km

Insulator

Material: TPE 85A
 Color: white, black, red, yellow
 Diameter: $\phi 1.8 \pm 0.10$ mm
 Nominal thickness: 0.21 mm
 Minimum resistance @ 20 °C: 100 M Ω /km

Shield

Type: braided
 Material: bare copper strands
 Stranding: $\phi 0.10$ mm, 65% minimum coverage

Drain

Material: bare copper strands
 Stranding: $\phi 0.127 \times 65$

Outer jacket

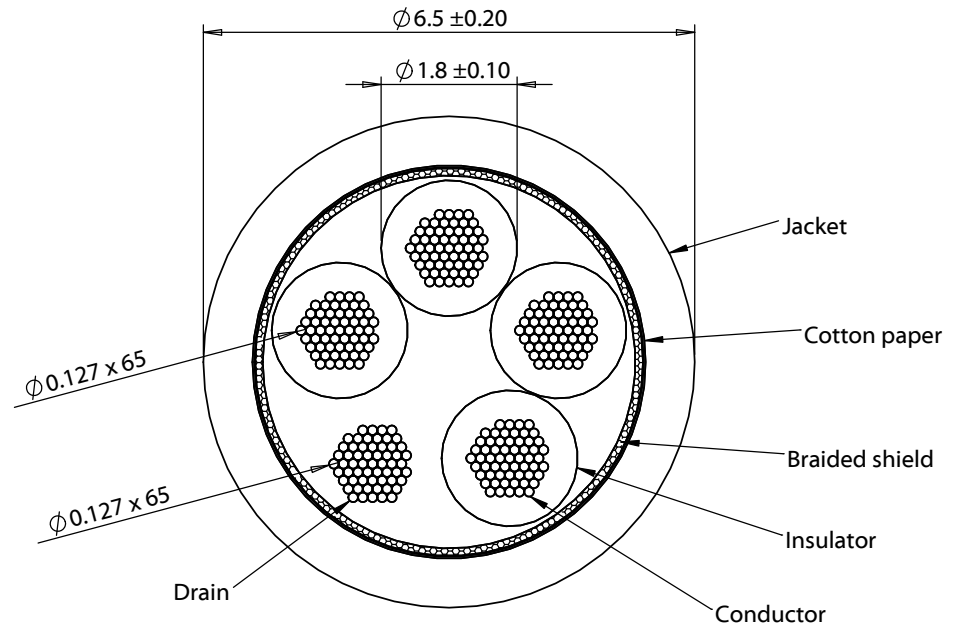
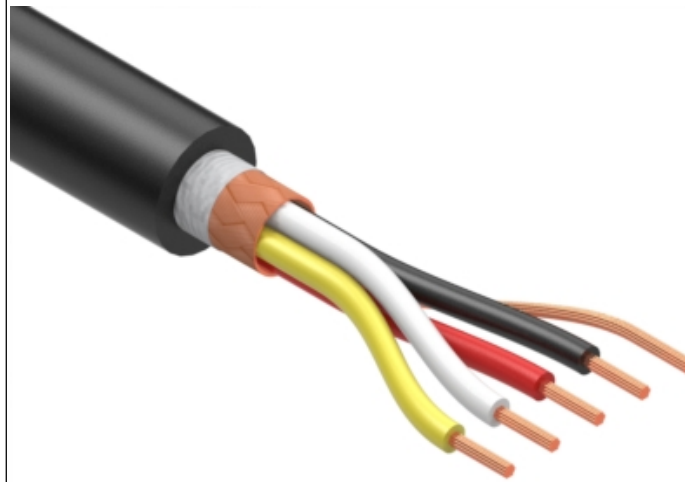
Material: TPU (Polyether Polyurethane) 80A
 Color: black
 Diameter: $\phi 6.5 \pm 0.20$ mm
 Nominal thickness: 0.82 mm

Wire marking: E339579 UL AWM STYLE 20280 18 AWG 80°C 300V --- cUL AWM I/II A 80 °C 300V FT2 TENSILITY

Tests

Spark test: 3.0 kV
 Insulation tensile strength: 0.562 kgf/mm²
 Jacket tensile strength: 1.05 kgf/mm²
 After aging at 113 ± 2 °C for 7 days:
 Minimum jacket tensile strength 70 % original
 Minimum insulation tensile strength 75 % original
 Minimum jacket elongation 65 % original
 Minimum insulation elongation 75 % original
 Heat shock: 121 ± 1 °C /1 hour, no observed degradation
 Deformation: 121 ± 1 °C /1 hour, ≤ 50 %
 Cold bend: -10 ± 2 °C /1 hour, no observed cracking
 Dielectric test: 2000 Vac for 1 minute without breakdown

Use: Internal wiring or external interconnection of electronic equipment.



Revision:	Date:	Description:
A	6/12/2019	Initial release

Prepared: AG <small>Digitally signed by AG Date: 2019.06.12 11:07:37 -07'00'</small>
Verified: JW <small>Digitally signed by JW Date: 2019.06.13 08:50:58 -07'00'</small>
Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm

Notes: RoHS and REACH compliant Phthalate and halogen free Function: no open, no short circuit, no intermittent
Description: Wire, 4C BC, 18 AWG, UL20280, 300V, 80C, 6.5 mm, braided shield, FT2, TPU

TENSILITY

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Size: A	Part number: 30-00915
Scale: 10:1	