

**Ratings**

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

**Conductor**

Conductor count: 3  
 Gauge: 18 AWG 0.82 mm<sup>2</sup>  
 Material: bare copper strands  
 Strand size:  $\phi 0.127 \times 65$   
 Max resistance at 20 °C: 23.2  $\Omega$  /km

**Insulator**

Material: TPE 85A  
 Color: white, black, red  
 Diameter:  $\phi 1.8 \pm 0.10$  mm  
 Nominal thickness: 0.24 mm  
 Minimum resistance @ 20 °C: 100 M $\Omega$  /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**

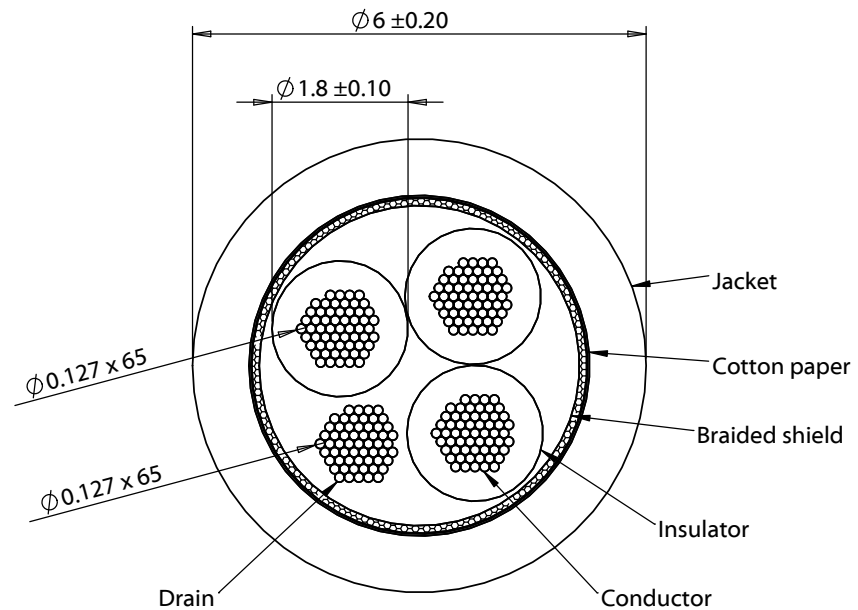
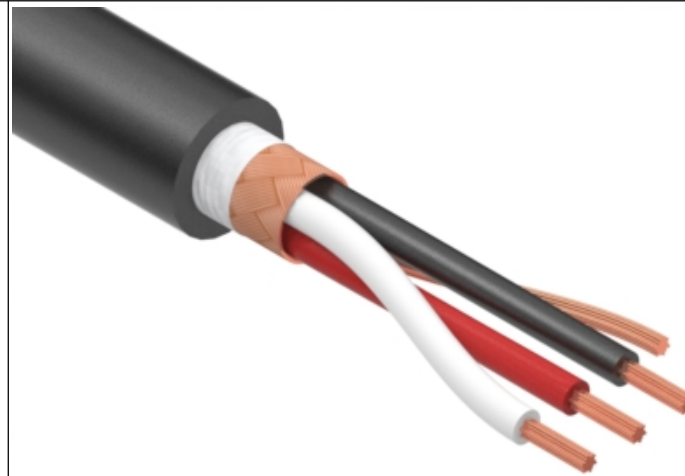
Material: TPU (Polyether Polyurethane) 80A  
 Color: black  
 Diameter:  $\phi 6 \pm 0.20$  mm  
 Nominal thickness: 0.80 mm

**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/mm<sup>2</sup>  
 Jacket tensile strength: 1.05 kgf/mm<sup>2</sup>  
 After aging at 113  $\pm 2$  °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  $\pm 1$  °C /1 hour, no observed degradation  
 Deformation: 121  $\pm 1$  °C /1 hour,  $\leq 50$  %  
 Cold bend: -10  $\pm 2$  °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  
Digitally signed by AG  
 Date: 2019.06.12 10:58:19  
 -07'00'

Verified: JW  
Digitally signed by JW  
 Date: 2019.06.13  
 08:42:29 -07'00'

Dimensions are in millimeters.  
 Tolerances:  
 X:  $\pm 0.5$  mm  
 X.X:  $\pm 0.3$  mm  
 X.XX:  $\pm 0.05$  mm

Notes:  
 RoHS and REACH compliant  
 Phthalate and halogen free  
 Function: no open, no short circuit, no intermittent

Description:  
 Wire, 3C BC, 18 AWG, UL20280, 300V, 80C, 6.0 mm, braided shield, FT2, TPU

**TENSILITY**

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Size: A	Part number: 30-00910
Scale: 10:1	

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