



Communication Systems

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Wire Specification Sheet

Aiphone Part # 851602DBW

Description: 16 AWG 2 conductors solid bare copper wire with foamed PE insulation, unshielded with a water blocking tape barrier and an overall PVC jacket for low-voltage electronic cable applications.

1. Conductor

- 1.1. AWG Size & Stranding: 16 AWG Solid
- 1.2. Material: Annealed Bare Copper
- 1.3. Conductor Count: 2 Conductors

2. Insulation

- 2.1. Material: Foamed PE
- 2.2. Wall Thickness: 0.015"
- 2.3. Color Code: Black, Red

3. Cable Assembly

- 3.1. Nominal Lay Length: 2.50" LHL (4.80 Tw/Ft)
- 3.2. Shield: N/A
- 3.3. Drain Wire: N/A
- 3.4. Barrier: Water Blocking Tape - 100% Coverage

4. Jacket

- 4.1. Material: Polyvinylchloride
- 4.2. Wall Thickness: 0.025"
- 4.3. Diameter: 0.238" ± .020"
- 4.4. Color: Gray
- 4.5. Ripcord: Yes
- 4.6. Weight: 31 Lbs/Mft

5. Markings*

- 5.1. Type: Cable permanently identified via surface inkjet print
- 5.2. Legend: AIPHONE P/N 851602DBW 16AWG 2C 75°C (UL) CL3
SUN RES OR FPL OR C(UL)US CM SUITABLE FOR WET
LOCATIONS AND DIRECT BURIAL "ROHS II"
MADE IN USA
- 5.3. Footage Markers: Yes

6. Nominal Electrical Characteristics

- 6.1. Impedance: 100 Ω

- 6.2. Capacitance: 14 pF/ft.
- 6.3. Conductor DCR: 4.02 Ω /Mft. @ 20° C Maximum

7. Standards

- 7.1. Refer to NEC (NFPA 70) article 725, 760 and article 800 for installation guidelines
- 7.2. UL listed as type CL3 per UL standard 13, type CM c(UL)us 75° C per UL standard 444, and as type FPL per UL standard 1424
- 7.3. All materials used in the manufacturing of this cable are RoHS II and REACH compliant
- 7.4. Maximum Operating Voltage: 300V RMS
- 7.5. Made in the USA

ALL SPECIFIED PARAMETERS ARE NOMINAL AND SUBJECT TO VERIFICATION

ALL MEASUREMENTS ARE NOMINAL