

QUAD SHIELD COAXIAL CABLE

18 AWG 1C Solid Copper Covered Steel

11/11/08 REV 1.0



PART NUMBER: 181QC

DESCRIPTION: 18 AWG 1 CONDUCTOR SOLID COPPER COVERED STEEL, FOAM PE DIELECTRIC, 100% BONDED ALUMINUM FOIL/POLYESTER TAPE, 60% ALUMINUM BRAID, 100% ALUMINUM FOIL/POLYESTER TAPE, 40% ALUMINUM BRAID, PVC JACKET, SWEEP TO 3.0 GHz, UL/NEC, C(UL)/CEC: CMR/CATV

PHYSICAL CHARACTERISTICS:

TEMPERATURE RATING: -40°C TO +80°C

CONDUCTOR MATERIAL & DIA.: 18 AWG SOLID COPPER COVERED STEEL
.040"

INSULATION MATERIAL & DIA.: GAS-INJECTED FOAM PE, .18"

SHIELD TYPE & % COVERAGE:

1ST LAYER	AL FOIL/POLYESTER TAPE, 100% BONDED
2ND LAYER	ALUMINUM BRAID, 60%
3RD LAYER	AL FOIL/POLYESTER TAPE, 100%
4TH LAYER	ALUMINUM BRAID, 40%

JACKET MATERIAL & THICKNESS: PVC, .034"

JACKET COLOR: BLACK, WHITE

OUTSIDE DIAMETER: .309"

FOOTAGE MARKERS: ASCENDING/DESCENDING IN FEET

MAXIMUM PULLING TENSION: 104 LBS.

MINIMUM BEND RADIUS: 3"

PACKAGING: REEL, EZ-PULL BOX

SHIPPING WEIGHT: 39 LBS.

ELECTRICAL CHARACTERISTICS:

MAX. OPERATING VOLTAGE: 350V

IMPEDANCE: 75 OHM

NOM. INDUCTANCE: .097 uH/FT

NOM. CAPACITANCE CONDUCTOR TO SHIELD: 16.2 pF/FT

NOM. VELOCITY OF PROPAGATION: 82%

NOM. DELAY: 1.2 ns/FT

NOM. CONDUCTOR DC RESISTANCE @ 20 DEG.C: 6.4 OHMS/1000 FT

NOM. SHIELD DC RESISTANCE @ 20 DEG. C: 4.8 OHMS/1000 FT

RETURN LOSS: 20 dB MIN, 5-1000MHz
15 dB MIN, 1000-2250 MHz

NOM. ATTENUATION:

<u>MHZ</u>	<u>DB/100 FT.</u>	<u>MHZ</u>	<u>DB/100 FT.</u>
5	0.5	862	5.5
55	1.4	1000	6.0
211	2.6	1450	7.9
500	4.1	1800	8.4
750	5.1	2250	10.1

NOTES:

1. Footage markers printed every two feet.
2. Foil shield is bonded to the dielectric.
3. While Signature Wire Corp. has made every reasonable effort to ensure the accuracy of these specifications, information contained herein may be subject to error and omission and to change without notice. Signature Wire Corp. provides these specifications on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied.

UL CRITERIA:

UL TYPE OR STYLE: CMR, CATV

FLAME RESISTANCE: UL1581 VERTICAL TRAY