

QUAD SHIELD DIRECT BURIAL COAXIAL CABLE

18 AWG 1C Solid BCCS

10/27/2006 REV 1.0



PART NUMBER: 181QD

DESCRIPTION: 18 AWG 1 CONDUCTOR SOLID BARE COPPER COVERED STEEL, GAS INJECTED FOAM PE DIELECTRIC, 100% BONDED ALUMINUM FOIL/POLYESTER TAPE, 60% ALUMINUM BRAID, 100% ALUMINUM FOIL/POLYESTER TAPE, 40% ALUMINUM BRAID, POLYETHYLENE JACKET, SWEEPED TO 1.0 GHz, DIRECT BURIAL, UL/NEC, C(UL)/CEC: CATV

PHYSICAL CHARACTERISTICS:

TEMPERATURE RATING: -55°C TO +80°C

CONDUCTOR MATERIAL & DIA.: 18 AWG SOLID BARE 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: POLYETHYLENE, .034"

JACKET COLOR: BLACK

OUTSIDE DIAMETER: .298"

FOOTAGE MARKERS: ASCENDING/DESCENDING IN FEET

MAXIMUM PULLING TENSION: 162 LBS.

MINIMUM BEND RADIUS: 3"

PACKAGING: REEL

SHIPPING WEIGHT: 29 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: 83%

NOM. DELAY: 1.2 ns/FT

NOM. CONDUCTOR DC RESISTANCE @ 20 DEG.C: 2.8 OHMS/1000 FT

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

RETURN LOSS: 20 dB MIN, 5-1000MHZ

NOM. ATTENUATION:

	<u>MHZ</u>	<u>DB/100 FT.</u>	<u>MHZ</u>	<u>DB/100 FT.</u>
	5	0.67	400	4.00
	55	1.60	450	4.26
	211	2.87	550	4.71
	270	3.24	750	5.59
	300	3.43	870	6.00
	350	3.72	1000	6.54

UL CRITERIA:

UL TYPE OR STYLE: CM, CATV

FLAME RESISTANCE: UL1581 VERTICAL TRAY

NOTES:

1. Footage markers printed every two feet.
2. Foil shield is bonded to the dielectric.
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