

DUAL SHIELD PLENUM COAXIAL CABLE

12/13/2006 Rev 1.1

18 AWG 1C Solid BC



PART NUMBER: 181DM

DESCRIPTION: 18 AWG 1 CONDUCTOR SOLID BARE COPPER-COVERED STEEL, GAS INJECTED FOAM FEP DIELECTRIC, 100% BONDED ALUMINUM FOIL/POLYESTER TAPE, 60% ALUMINUM BRAID, SWEPT TO 1.0 GHz, (UL)/NEC: CATVP, CMP (UL)/CEC/C: CMP

PHYSICAL CHARACTERISTICS:

TEMPERATURE RATING: -20°C TO +75°C
CONDUCTOR MATERIAL & DIA.: 18 AWG SOLID BARE CCS, .040"
INSULATION MATERIAL & DIA.: GAS-INJECTED FOAM FEP .170"
SHIELD TYPE & % COVERAGE: AL FOIL/POLYESTER TAPE, 100% ALUMINUM BRAID, 60%
JACKET MATERIAL & THICKNESS: LS PVC
JACKET COLOR: BLACK, WHITE
OUTSIDE DIAMETER: .235"
FOOTAGE MARKERS: ASCENDING/DESCENDING IN FEET
MAXIMUM PULLING TENSION: 126 LBS.
MINIMUM BEND RADIUS: 3.0"
PACKAGING: REEL
SHIPPING WEIGHT: 25 LBS./1000 FT.

ELECTRICAL CHARACTERISTICS:

MAX. OPERATING VOLTAGE: 300V
IMPEDANCE: 75 OHM
NOM. INDUCTANCE: .09 uH/FT
NOM. CAPACITANCE CONDUCTOR TO SHIELD: 16.3 pF/FT
NOM. VELOCITY OF PROPAGATION: 83%
NOM. DELAY: 1.24 ns/FT
NOM. CONDUCTOR DC RESISTANCE @ 20 DEG.C: 28.0 OHMS/1000 FT
NOM. SHIELD DC RESISTANCE @ 20 DEG. C: 9 OHMS/1000 FT
RETURN LOSS: 20 dB MIN, 5-1000 MHz

NOM. ATTENUATION:

MHZ	DB/100 FT.	MHZ	DB/100 FT.
1	0.30	400	4.6
10	0.66	700	6.6
50	1.6	900	7.7
100	2.2	1000	8.2
200	3.0		

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: CATVP, CMP
FLAME RESISTANCE: UL910 STEINER TUNNEL