

DUAL SHIELD COAXIAL CABLE

18 AWG 1C Solid Copper Coated Steel

11/11/08 Rev 1.0



PART NUMBER: 181DC

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

PHYSICAL CHARACTERISTICS:

TEMPERATURE RATING: -40° C TO + 80°C
CONDUCTOR MATERIAL & DIA.: 18 AWG SOLID COPPER COATED STEEL
.0403"
INSULATION MATERIAL & DIA.: FOAM PE, .18"
SHIELD TYPE & % COVERAGE: AL FOIL/POLYESTER TAPE, 100%
ALUMINUM BRAID, 60%
JACKET MATERIAL & THICKNESS: PVC, .034"
JACKET COLOR: BLACK, WHITE
OUTSIDE DIAMETER: .270"
FOOTAGE MARKERS: ASCENDING/DESCENDING IN FEET
MAXIMUM PULLING TENSION: 80 LBS.
MINIMUM BEND RADIUS: 2.75"
PACKAGING: REEL, EZ-PULL BOX
SHIPPING WEIGHT: 31 LBS./1000 FT.

ELECTRICAL CHARACTERISTICS:

MAX. OPERATING VOLTAGE: 300V
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: 9 OHMS/1000 FT
RETURN LOSS: 15 dB MIN, 950-2250MHz

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
		3000	11.0

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.
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.