

COPPER FUSION™ SERIAL DIGITAL

18 AWG 1C Solid BC

12/13/2006 REV. 1.1



PART NUMBER: 181SD

DESCRIPTION: *RG6/U 18 AWG 1 CONDUCTOR SOLID BARE COPPER, HDPE GAS INJECTED FOAM DIELECTRIC, CLEAR TINTED PVC JACKET, 100% BONDED ALUMINUM FOIL TAPE, 95% TINNED COPPER BRAID, SWEPT TO 4.5GHz, UL/NEC, C(UL)/CEC: CM*

PHYSICAL CHARACTERISTICS:

TEMPERATURE RATING: -30 TO +75 DEG. C
CONDUCTOR MATERIAL & DIA.: 18 AWG SOLID BARE COPPER, .040"
INSULATION MATERIAL & DIA.: GAS INJECTED FOAM HDPE, .18" NOM
SHIELD TYPE & % COVERAGE: AL FOIL SHIELD TAPE, 100%
 TINNED COPPER BRAID, 95%
JACKET MATERIAL & THICKNESS: CLEAR TINTED PVC, .035" NOM
JACKET COLOR: RED, GREEN, BLUE, DARK GRAY, YELLOW, WHITE
OUTSIDE DIAMETER: .274" NOM
FOOTAGE MARKERS: ASCENDING/DESCENDING IN FEET
MAXIMUM PULLING TENSION: 69 LBS.
MINIMUM BEND RADIUS: 2.75"
PACKAGING: REELS
SHIPPING WEIGHT: 44 LBS.

ELECTRICAL CHARACTERISTICS:

MAX. OPERATING VOLTAGE: 300V
IMPEDANCE: 75 OHMS
NOM. INDUCTANCE: .106 UH/FT
NOM. CAPACITANCE CONDUCTOR TO SHIELD: 16.2 pf/FT
NOM. VELOCITY OF PROPAGATION: 82%
NOM. DELAY: 1.24 ns/FT
NOM. CONDUCTOR DC RESISTANCE @ 20 DEG.C: 6.4 OHMS/1000 FT.
NOM. SHIELD DC RESISTANCE @ 20 DEG. C: 2.8 OHMS/1000 FT.
RETURN LOSS: 23db MIN, 5 - 850MHz
 21db MIN, 851MHz - 4.5GHz

NOM. ATTENUATION:

	<u>MHZ</u>	<u>DB/100 FT.</u>	<u>MHZ</u>	<u>DB/100 FT.</u>
	1	0.24	180	2.42
	3.58	0.45	270	2.97
	5	0.54	360	3.43
	7	0.63	540	4.25
	10	0.72	720	4.95
	67.5	1.57	750	5.00
	71.5	1.6	1000	5.89
	88.5	1.75	1500	7.33
	100	1.84	2000	8.57
	135	2.1	2250	9.14
	143	2.16	3000	10.67

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:
FLAME RESISTANCE:

UL/NEC, C(UL)/CEC: CM
 1581 VERTICAL TRAY