

TECHNICAL DATA

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12-06-02 REV. 4

83266

I. DESCRIPTION:

30 AWG (7 X 38) SILVER COATED COPPER COVERED STEEL,
TFE INSULATION, SHIELDED, FEP JACKETED, RG-180
HIGH TEMP COAXIAL CABLE, MIL-C-17 M17/95-RG180.

II. ELECTRICAL CHARACTERISTICS:

NOM. IMPEDANCE:	95 OHMS
NOM. INDUCTANCE:	.135 MICROHENRIES/FT.
NOM. CAPACITANCE	
CONDUCTOR TO SHIELD:	15.0 PICO FARADS/FT.
NOM. VELOCITY OF PROPAGATION:	69.5%
NOM. DELAY:	1.48 NANoseconds/FT.

ATTENUATION

NOMINAL

MHZ	DB/100'
1	2.4
10	3.3
50	4.6
100	5.7
400	10.7
700	14.9
900	15.9
1000	17.0

NOM. SHIELD DC RESISTANCE

@ 20 DEG. C:	6.5 OHMS/1000 FT.
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NOM. CONDUCTOR DC RESISTANCE

@ 20 DEG. C: 244.5 OHMS/1000 FT.
MAX. OPERATING VOLTAGE:
MILITARY: 1100 V RMS

III. PHYSICAL CHARACTERISTICS:

NOM. WEIGHT/1000: 18 LBS
MIN. BENDING RADIUS: 1.4"
TEMPERATURE RATING: -70 DEG.C TO +200 DEG.C
SHIELD TYPE AND % COVERAGE: SILVER COATED COPPER
BRAID, 91%
MAX. PULLING TENSION: 25 LBS
INSULATION MATERIAL: TFE TEFLON*
CORE DIAMETER: .102" NOMINAL
JACKET MATERIAL: FEP TEFLON* TINTED BROWN
OUTSIDE DIAMETER: .141" NOMINAL
APPLICABLE SPECIFICATIONS: MIL-C-17G M17/95-RG180
* TEFLON - TRADEMARK OF DUPONT