

TECHNICAL DATA

Customer Number • Customer Name •

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10-13-00 REV. 8

83265

I. DESCRIPTION:

30 AWG (7 X 38) SILVER COATED COPPER COVERED STEEL,
TFE INSULATED, SHIELDED, FEP JACKETED, RG-178 HIGH
TEMP COAXIAL CABLE, MIL-C-17G M17/169 00001

II. ELECTRICAL CHARACTERISTICS:

NOM. IMPEDANCE:	50 OHMS
NOM. INDUCTANCE:	.072 MICROH/FT
NOM. CAPACITANCE	
CONDUCTOR TO SHIELD:	29.0 PF/FT
NOM. VELOCITY OF PROPAGATION:	69.5%
NOM. DELAY:	1.46 NS/FT
ATTENUATION:	POWER RATING

NOMINAL		MAXIMUM
MHZ	DB/100 FT.	WATTS
1	2.6	
10	5.6	
50	10.5	380
100	14.0	253
200	19.0	170
400	28.0	113
700	37.0	81
900	42.5	70
1000	46.0	66
1800	63.3	

SHIELD COVERAGE: 96%
NOM. SHIELD DC RESISTANCE
@ 20 DEG. C: 14.6 OHMS/1000 FT.
NOM. CONDUCTOR DC RESISTANCE
@ 20 DEG. C: 244.5 OHMS/1000 FT.
MAX. OPERATING VOLTAGE:
MILITARY: 750 V RMS

III. PHYSICAL CHARACTERISTICS:

NOM. WEIGHT/1000 FT.: 6 LBS.
MIN. BENDING RADIUS: 1"
TEMPERATURE RATING: -70 TO +200 DEG. C
SHIELD TYPE AND % COVERAGE: SILVER PLATED
COPPER BRAID, 96%

MAXIMUM PULLING TENSION: 12 LBS.
INSULATION MATERIAL: TFE TEFLON*
JACKET MATERIAL (COLOR): FEP TEFLON* TINTED WHITE
NOM. CONDUCTOR O.D.: .0120
NOM. CORE O.D.: .033
NOM. OUTSIDE DIMENSIONS: .071
FLAME RESISTANCE: UL 910 STEINER TUNNEL
APPLICABLE SPECIFICATIONS: MIL-C-17G M17/169-00001
* TEFLON - TRADEMARK OF DUPONT