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Belden Wire & Cable Company

PRODUCT CODE

3082A

TECHNICAL
DATA SHEET

10/13/95 REV. 5

3082A

I. DESCRIPTION:

2 PAIRS, 1-18 AWG (19 X 30) TINNED COPPER DATA PAIR,
1 - 15 AWG (19 X 28) TINNED COPPER POWER PAIR, INDIVIDUALLY
SHIELDED, OVERALL TINNED COPPER BRAID SHIELD, PVC JACKETED
DEVICE BUS(TM) TRUNK CABLE.

II. ELECTRICAL CHARACTERISTICS:

MAX. OPERATING VOLTAGE: 300 V RMS PER UL
MAX. CONTINUOUS CURRENT PER
CONDUCTOR @ 25 DEG. C (18 AWG): 5 A
MAX. CONTINUOUS CURRENT PER
CONDUCTOR @ 25 DEG. C (15 AWG): 8 A
NOM. CAPACITANCE BETWEEN
CONDUCTORS OF DATA PR @ 1 MHZ: 12 PF/FT.
NOM. IMPEDANCE (DATA PR ONLY): 120 OHMS +/- 12 OHMS
MAX. DELAY (DATA PR ONLY): 1.36 NS/FT
MIN. VELOCITY OF PROPAGATION
(DATA PR ONLY): 75%
MAX. ATTENUATION (DATA PAIR ONLY):
@ 125 KHZ: .13 DB/100'
@ 500 KHZ: .25 DB/100'
@ 1 MHZ: .36 DB/100'
MAX. CONDUCTOR DC RESISTANCE
@ 20 DEG C (18 AWG): 6.92 OHMS/1000'
MAX. CONDUCTOR DC RESISTANCE
@ 20 DEG C (15 AWG): 3.60 OHMS/1000'
NOM. SHIELD DC RESISTANCE
@ 20 DEG. C: 1.8 OHMS/1000 FT.

III. PHYSICAL CHARACTERISTICS:

TEMPERATURE RATING: -20 TO +75 DEG.C (UL)
-20 TO +80 DEG.C (CSA)
INSULATION MATERIAL:
DATA PAIR: FOAMED PE W/PE SKIN
POWER PAIR: PVC W/NYLON SKIN
JACKET MATERIAL (COLOR): PVC (LT. GRAY)
TYPE SHIELD AND % COVERAGE
(INDIVIDUAL): POLYESTER/ALUM - 100%
(OVERALL): TC BRAID - 65%
TWISTED PAIR LAY LENGTH: 4" (3 TWISTS/FT.)
MAXIMUM PULLING TENSION: 190 LBS.
NOM. O.D.: .475"
MIN. BEND RADIUS: 4.8"
NOM. WEIGHT/1000 FT: 108.4 LBS.
APPLICABLE SPECIFICATIONS: UL PLTC OR CMG, CSA
AWM I/II A/B
FLAME RESISTANCE: UL 1581, CSA FT4

IV. COLOR CODE:

DATA PAIR

POWER PAIR

To: From: L. VAROVIC 2-19-97 0:51am p. 3 of 7
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