

Belden Wire & Cable Company

PRODUCT CODE

TECHNICAL
DATA SHEET

3082A

7206811

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

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BLUE&WHITE

BLACK&RED

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