

Belden Wire & Cable Company

Product Code
129880Technical
Data Sheet

05/15/08 REV.1

129880

I. DESCRIPTION:

ETHERNET (TM) AND IEEE 802.3 10 BASE 5 COAXIAL CABLE,
WITH ALUMINUM INTERLOCKED ARMOUR AND OVERALL PVC
JACKET.

II. ELECTRICAL CHARACTERISTICS:

NOM. IMPEDANCE: 50 +/- 2 OHMS, +/- 3 OHMS
PERIODIC AROUND AVERAGE
NOM. INDUCTANCE: .065 MICRO-H/1000 FT.

NOM. CAPACITANCE

CONDUCTOR TO SHIELD:

26 +/- 1.5 PF/FT.

NOM. VELOCITY OF PROPAGATION:

78 +/- 1%

NOM. DELAY:

1.3 NSEC/FT.

ATTENUATION

MAXIMUM

MHZ DB/100 FT.

MHZ

DB/100 FT.

1 .19

700

5.5

5 .37

900

6.5

10 .52

1000

6.9

50 1.20

1500

8.5

100 1.70

2000

10.1

200 2.55

2500

11.5

400 3.90

3000

13.0

NOM. SHIELD DC RESISTANCE

@ 20 DEG C:

1.52 OHMS/1000 FT.

NOM CONDUCTOR DC RESISTANCE

@ 20 DEG C:

1.42 OHMS/1000 FT.

MAX. OPERATING VOLTAGE (NON UL):

600 V RMS

(UL):

150 V RMS

III. PHYSICAL CHARACTERISTICS:

STORAGE TEMPERATURE RATING:

-40 TO +60 DEG.C

INSTALL. TEMPERATURE RATING:

-25 TO +60 DEG.C

SHIELD TYPE AND % COVERAGE

INNER:

ALUM/POLYESTER

+ 94% BRAID

OUTER:

DUOFOIL + 90% BRAID

CONDUCTOR MATERIAL & DIA:

12 AWG SOLID COPPER

.0855"

INSULATION MATERIAL & DIA.:

CELLULAR POLYETHYLENE

.247" DIA.

JACKET MATERIAL & DIA.(CORE):

YELLOW PVC, RING BAND

MARKED AT 2.5 METER

INTERVALS

.405" +/- .005" DIA.

APPLICABLE SPECIFICATION(CORE):

NEC CM OR CL2, AWM 1478

C(UL) CM

IEEE 802.3 10BASE5

ISO 8802.3 10BASE5

DEC P/N 17-00451-00

AN INTERLOCKED ALUMINUM ARMOUR & PVC JACKET ARE APPLIED OVER

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THE BELDEN 9880 CORE.
DIA. OVER ARMOUR:                .62"
DIA. OVER PVC JACKET:            .72"
MIN. BENDING RADIUS:            10.5"
NOM. WEIGHT/1000 FT.:           249 LBS.
MAX. PULLING TENSION:            255 LBS.
SPECIFICATIONS:                  NEC TYPE CM
                                  CEC TYPE CMG
                                  CSA HL (C22.2 #174)
                                  DIRECT BURIAL
FLAME RATING:                    UL 1685 VERTICAL TRAY
                                  (70,000 BTU/HR)
                                  CSA FT4 VERTICAL TRAY
                                  (70,000 BTU/HR)
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