

09-08-11 REV. 0

123082A

I. DESCRIPTION:

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2 PAIRS, 1-18(19X30) AWG TINNED COPPER DATA PAIR,  
1-15(19X28) AWG TINNED COPPER POWER PAIR, INDIVIDUALLY  
SHIELDED, OVERALL TINNED COPPER BRAID SHIELD, PVC  
JACKET DEVICE BUS(TM) TRUNK CABLE, ALUMINUM INTERLOCKED  
ARMOR, OVERALL PVC JACKET.

II. ELECTRICAL CHARACTERISTICS:

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MAX. OPERATING VOLTAGE:	300 V (PLTC, CMG) 600 V (AWM)
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:

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TEMPERATURE RATING:	-40C TO +75C DEG.
INSULATION MATERIAL:	
DATA PAIR:	FOAMED PE W/PE SKIN
POWER PAIR:	PVC W/NYLON SKIN
INNER JACKET MATERIAL (COLOR):	PVC (LT. GRAY)
TYPE SHIELD AND % COVERAGE (INDIVIDUAL):	MYLAR/ALUM - 100%
(OVERALL):	TC BRAID - 65%

NOM. O.D. (CORE) : .480"

IV. COLOR CODE:

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DATA PAIR  
BLUE&WHITE

POWER PAIR  
BLACK&RED

AN INTERLOCKED ALUMINUM ARMOR & PVC JACKET ARE APPLIED  
OVER THE BELDEN 3082A CORE.

DIAMETER OVER ARMOR:	.683"
DIAMETER OVER PVC JACKET:	.783"
MIN. BENDING RADIUS:	9.4"
NOM. WEIGHT/1000':	350 LBS.
MAX. PULLING TENSION:	275 LBS.
SPECIFICATIONS:	CSA/UL CMG UL PLTC CSA HLBCD (HAZ LOC)
FLAME RATING:	CSA FT4 (70,000 BTU/HR)

V. PRINT LEGEND:

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BELDEN 123082A DEVICEBUS(R) THICK CABLE 1PR16 1PR18 SHIELDED  
(UL) E34972-G CM 75C OR PLTC --- CSA HLBCD CMG SUN RES CANADA  
ROHS {DATE} {COUNTER} MT