

## Technical Data Sheet

11-10-08 REV. 2

123079A BELDEN DATABUS SERIES PROFIBUS CABLE

I. DESCRIPTION:

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22 AWG SOLID BARE COPPER; 1 PAIR FLAME RETARDANT POLYETHYLENE INSULATED, OVERALL BELDFOIL + TINNED COPPER BRAID SHIELD, PVC INNER JACKET, INTERLOCKED ALUMINUM ARMOR, PVC OUTER JACKET.

## II. ELECTRICAL CHARACTERISTICS:

MAX. OPERATING VOLTAGE:	300 V RMS
NOM. PAIR CAPACITANCE @ 1 KHZ:	8.5 PF/FT
IMPEDANCE (3-20 MHZ):	150+/-15 OHMS
NOM. CONDUCTOR DCR @ 20C:	52 OHMS/1000'
VELOCITY OF PROPAGATION:	78%
BALANCED ATTENUATION @ 0.20 MHZ:	9 DB/KM MAX
@ 4.00 MHZ:	22 DB/KM MAX
@ 16.0 MHZ:	45 DB/KM MAX
NOM. LOOP INDUCTANCE:	.282 MICRO-H/FT

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## III. PHYSICAL CHARACTERISTICS:

TEMPERATURE RATING:	-30 TO +75 DEG C
INSULATION MATERIAL:	FLAME RETARDANT PE
INNER JACKET MATERIAL:	PVC
TYPE SHIELDS AND % COVERAGE:	BELDFOIL; 100%
	T.C BRAID; 65%
MAX. PULLING TENSION:	50 LBS. ESTIMATED

AN INTERLOCKED ALUMINUM ARMOR AND OUTER PVC JACKET ARE APPLIED OVER THE BELDEN 3079A CORE. CORE DIAMETER: .315" NOMINAL ARMOR DIAMETER: .520" NOMINAL .620" NOMINAL OVERALL DIAMETER: 7.50" MIN. BEND RADIUS: APPLICABLE SPECIFICATIONS: UL TYPE PLTC, CMG FLAME RESISTANCE:

COLOR CODE:

UL 1581 VERTICAL TRAY CSA FT4 RED AND GREEN

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