BELDEN
SENDING ALL THE RIGHT SIGNALS

Technical
Data Sheet

11/15/13 REV.1

123108A

I. DESCRIPTION

THREE 22 AWG (7X30) TINNED COPPER FOAM HIGH DENSITY POLYETHYLENE INSULATED TWISTED PAIRS WITH OVERALL BELDFOIL® & 65% TINNED COPPER BRAID SHIELD, 22 AWG TINNED COPPER DRAIN WIRE, BLACK PVC JACKET, GALVANIZED ALUMINUM INTERLOCKED ARMOR, OVERALL PVC JACKET.

II. ELECTRICAL CHARACTERISTICS

MAX. OPERATING VOLTAGE	300 V RMS
MAX. CONTINUOUS CURRENT PER CONDUCTOR @ 25°C	2.7 A
NOM. CAPACITANCE BETWEEN CONDUCTORS @ 1 KHZ	11.0 PF/FT.
NOM. CAPACITANCE CONDUCTOR TO SHIELD @ 1 KHZ*	20.9 PF/FT.
NOM. IMPEDANCE @ 1MHZ	120 OHMS
NOM. CONDUCTOR DCR @ 20°C	17.5 OHMS/1000’
NOM. SHIELD DCR @ 20°C	1.8 OHMS/1000’
NOM. VELOCITY OF PROPAGATION	78%
NOM. ATTENUATION @ 1 MHZ.	.5 DB/100’

*ONE CONDUCTOR TO OTHER CONDUCTOR AND SHIELD

III. PHYSICAL CHARACTERISTICS

TEMPERATURE RATING	-40°C TO +60°C
INSULATION MATERIAL	DATALENE
INNER JACKET MATERIAL	PVC
SUNLIGHT RESISTANCE:	PASSES UL1581, 720 HOURS
OIL RESISTANCE:(INNER JACKET)	PASSES OIL RES II PER UL 1277
TYPE SHIELD AND % COVERAGE	BELDFOIL®/BRAID 100%/65%

AN ALUMINUM INTERLOCKED ARMOR AND PVC JACKET ARE APPLIED OVER THE 3108A BELDEN CORE.

CORE DIAMETER	.374”
DIAMETER OVER ARMOR	.574”
DIAMETER OVER PVC JACKET	.674”
MIN. BENDING RADIUS	8.0”
BULK WEIGHT	210 LBS./1000’
MAX. PULLING TENSION	200 LBS.
APPLICABLE SPECIFICATIONS	NEC TYPE PLTC (UL 13) CSA CMG (C22.2 #214) CSA HLBCD
FLAME RATING	UL1685 VERTICAL TRAY CSA FT4

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