

09-10-08 REV. 0

127931A

I. DESCRIPTION:

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4 PAIR UTP (UNSHIELDED TWISTED PAIR) CATEGORY 6 CABLE  
#23 AWG SOLID BARE COPPER, FEP INSULATED ADJOINED  
SINGLES @ ROD FILLER, FEP GAS RES OIL RES I & II  
JACKET. JACKET IS SEQUENTIALLY MARKED AT TWO  
FOOT INTERVALS. US PATENTS 5,606,151 & 5,734,126. AN  
OVERALL ALUMINUM INTERLOCKED ARMOR AND PVC JACKET ARE  
APPLIED OVER THE BELDEN CORE.

II. APPLICATIONS:

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INDUSTRIAL ETHERNET & CATEGORY 6 APPLICATIONS SUCH AS  
100 BASE TX, 100 BASE VG ANYLAN, AND 155 ATM. IDEAL  
FOR USE IN HIGH BANDWIDTH EXISTING OR FUTURE  
APPLICATIONS SUCH AS 622 ATM AND GIGABIT ETHERNET.  
MULTIMEDIA APPLICATIONS INCLUDE AES/EBU DIGITAL AUDIO,  
RS-422 MACHINE CONTROL WHICH NORMALLY REQUIRE SHIELDED  
TWISTED PAIRS. WILL ALSO SUPPORT NTSC AND PAL  
COMPOSITE SERIAL DIGITAL VIDEO AND NTSC/PAL COMPONENT  
SERIAL DIGITAL VIDEO, WHICH NORMALLY REQUIRE COAXIAL  
CABLES. MANY OF THESE CAN BE COMBINED FOR "SHARED-  
SHEATH APPLICATIONS", THAT IS MULTIPLE APPLICATIONS  
USING THE SAME CABLE. IDEAL FOR "NOISY" ENVIRONMENTS  
SUCH AS RUNNING NEXT TO POWER CABLES AND TRANSFORMERS.

III. PHYSICAL CHARACTERISTICS:

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TEMPERATURE RANGE:	-40 TO 150 C
INSULATION MATERIAL:	FEP
JACKET AND FILLER MATERIAL:	FEP
MAX. PULLING TENSION:	40 LBS.
MIN. CONDUCTOR OD:	0.023"
MIN. INSULATION OD:	0.038"
NOM. WEIGHT/1000 FT:	28.0 LBS.
MIN. BEND RADIUS:	2.14"
NOM. DIAMETER:	0.214"

APPLICABLE SPECIFICATIONS (FOR CABLE CORE ONLY):

ANSI/TIA/EIA-568-B.2-1 CAT 6

IV. COLOR CODE:

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PAIR #1: WHITE/BLUE & BLUE  
PAIR #2: WHITE/ORANGE & ORANGE  
PAIR #3: WHITE/GREEN & GREEN  
PAIR #4: WHITE/BROWN & BROWN

V. ELECTRICAL CHARACTERISTICS:

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MAX. OPERATING VOLTAGE: 300 V RMS  
NOM. CAPACITANCE @ 1 KHZ: 15 PF/FT.  
NOM. VELOCITY OF PROPAGATION: 72%

AN ALUMINUM INTERLOCKED ARMOR AND PVC JACKET ARE APPLIED OVER  
THE BELDEN 7931A CORE.

CORE OD: .214"  
ARMOR OD: .314"  
JACKET OD: .414"  
FLAME RATING AND TEST: UL CM, CSA CMG, CSA FT4