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REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
A	INITIAL RELEASE	9/7/12	D.FRISIELLO

# RoHS Compliant ✓

1) CONSTRUCTION:

CONDUCTOR:	24 AWG 7/32 STRANDED TINNED COPPER	NOM. DIA.	.024"
INSULATION:	HIGH DENSITY POLYETHYLENE, .007" NOM. WALL THICKNESS		.039" MAX
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.078"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH TISSUE TAPE TO FORM A CABLE CORE		
JACKET:	POLYURETHANE (TYPE 350B), BLACK, .024" NOM. WALL THICKNESS (PRESSURE)	OVERALL CABLE DIAMETER	.228" MAX

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	26.9 LBS.
UV RESISTANT JACKET	
BEND RADIUS	1" FOR STATIC BEND
FLEX LIFE	1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS) 10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)

3) ELECTRICAL CHARACTERISTICS:  
SEE PAGE 2

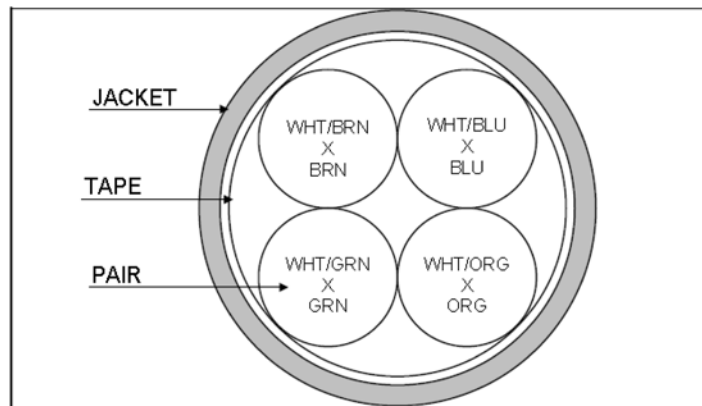
4) AGENCY APPROVALS:

5) APPLICATION:  
FOR APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY. MEETS CATEGORY 5e ASSEMBLY SPECIFICATIONS. ALSO FOR USE IN PLUG TO PLUG CHANNELS (NO JACKS OR HORIZONTAL CABLE). SEE ATTENUATION TABLE FOR EQUIVALENT CHANNEL LENGTH. RoHS COMPLIANT MATERIALS.

6) PRINT: (WHITE PRINT)  
QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD P/N 5700R -- RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

7) COLOR CODE:  
1. WHITE/BLUE X BLUE  
2. WHITE/ORANGE X ORANGE  
3. WHITE/GREEN X GREEN  
4. WHITE/BROWN X BROWN

8) PUT UPS  
AVAILABLE IN STANDARD 1000 FT REELS OR IN LONGER BULK PUTUPS



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES [mm] OVERALL CABLE LENGTH TOLERANCE: ≤12 [305] = +1 [25] / -0 >12 [305] - 60 [1524] = +2 [51] / -0 >60 [1524] - 120 [3048] = +4 [102] / -0 >120 [3048] - 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0% ALL OTHER DIMENSIONAL TOLERANCES: .X = .2 .XX = .02 .XXX = .005	APPROVALS	DATE	45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845			
	DRAWN BY D.FRISIELLO	9/7/12				
	CHECKED BY D.GALLAGHER	9/7/12	CATEGORY	MODULAR		
	APPROVED BY D.GALLAGHER	9/7/12	PRODUCT DESCRIPTION	C5E 4PR PUR 7/32 24AWG BLK 1K		
PROJECTION		CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY  COLOR VARIATIONS MAY OCCUR	SIZE <b>A</b>	FSCM NO. <b>43321</b>	DWG. NO. <b>TC5700</b>	REV. <b>A</b>
		SCALE: 1:1	CAD FILE: TC5700.SLDDRW	SHEET 1 OF 2		

**3) ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)**

CAPACITANCE, MUTUAL 13.5 PF/FT. AT 1 MHZ  
 DIELECTRIC WITHSTANDING, MIN 1500V RMS  
 VOLTAGE RATING, MAX. 300V  
 D.C. RESISTANCE, MAX. 26.0  $\Omega$ /1000'  
 IMPEDANCE 100 +/- 15  $\Omega$  1-100 MHZ; 100 +/-20  $\Omega$  100 TO 350 MHZ  
 SRL 23 DB 1-20 MHZ  
 23 - 10 LOG(F/20) 20-100 MHZ

RETURN LOSS 1 - 10 MHZ 20 + 5 LOG (F) DB MIN  
 10 - 20 MHZ 25 DB MIN  
 20 - 100 MHZ 25 - 8.6 LOG(F/20) DB MIN

PS NEXT 1-100 MHZ 64 - 15 LOG (F/772) MIN

NEXT 1-100 MHZ 67 - 15 LOG (F/772) MIN

PS ELFEXT 1-100 MHZ 63 - 20 LOG(F/772) MIN

ELFEXT 1-100 MHZ 66 - 20 LOG(F/772) MIN

ATTENUATION (SEE BELOW)


DELAY 1-100 MHZ 534 + 36/SQRT(F)

DELAY SKEW 1-100 MHZ <25NS

LCL 1-100 MHZ -38dB MIN

**ATTENUATION:**

FREQUENCY	SPEC 70M OF CABLE (CAT 5e CHANNEL)	ATTENUATION PER METER
1.0	2.5	.036
4.0	4.5	.064
8.0	6.3	.09
10.0	7.0	.1
16.0	9.2	.13
20.0	10.3	.15
25.0	11.4	.16
31.25	12.8	.18
62.5	18.5	.26
100.0	24.0	.343

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SCALE: 1:1		CAD FILE: TC5700.SLDDRW	SHEET 2 OF 2