

1) CONSTRUCTION:

CONDUCTOR: 26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.
INSULATION: POLYOLEFIN, .010" NOM. WALL THICKNESS	.019"
PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS	.039" MAX.
CABLE: (4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A CLEAR POLYESTER BINDER TO FORM A CABLE CORE.	.078"
SHIELDS: AN OVERALL ALUMINIZED POLYESTER FOIL SHIELD (FOIL OUT, 100% COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE AND SHALL CONTAIN A 26 AWG 7/34 STRANDED TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE. A SECOND SHIELD OF 38 AWG TINNED COPPER BRAID (85% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE FOIL SHIELD.	.149"
JACKET: POLYURETHANE, ( <b>COLOR, PER CHART 1</b> ), .022" NOM. WALL THICKNESS (PRESSURE)	.170"
	OVERALL CABLE DIAMETER
	.220" ± .010" (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	32.6 LBS.
UV RESISTANT JACKET	

CHART 1:

QUABBIN P/N	JACKET COLOR
5730	BLACK
5731	BLUE
5732	TEAL

3) ELECTRICAL CHARACTERISTICS:  
SEE PAGE 2

4) AGENCY APPROVALS:  
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

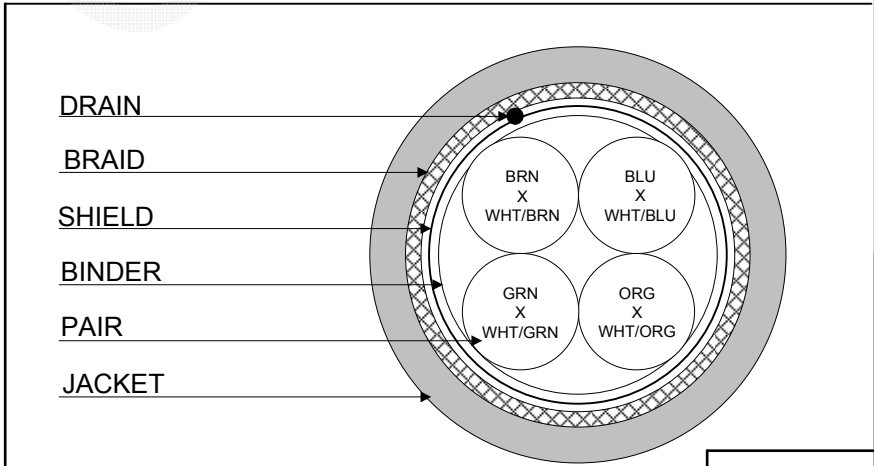
5) APPLICATION:

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)  
QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CORD CAT 5e SF/UTP P/N (**P/N PER CHART 1**) -- CE RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

7) COLOR CODE:

1. BLUE X WHITE/BLUE
2. ORANGE X WHITE/ORANGE
3. GREEN X WHITE/GREEN
4. BROWN X WHITE/BROWN

8) PACKAGING:  
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



CUSTOMER APPROVAL:

DATE:


Created 12/19/13	DRAWN: SGH 12/06/18	
REV. 02	CHECKED: ZRS 12/07/18	
TITLE		
DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CABLE – 4 PR SCREENED		
DRAWING #	QWC0069	1 of 2

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

CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz
DIELECTRIC WITHSTANDING, MIN.	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, MAX.	42.6 $\Omega$ /1000'
IMPEDANCE,	100 $\pm$ 15 $\Omega$ 1 - 100 MHz
IMPEDANCE, SMOOTHED	100 $\pm$ 10 $\Omega$ TYPICAL 5 - 100 MHz

RETURN LOSS	1 $\leq$ f < 10 MHz	20 + 5 LOG(f) dB MIN
	10 $\leq$ f < 20 MHz	25 dB MIN
	20 $\leq$ f $\leq$ 100 MHz	25 - 8.6 LOG(f/20) dB MIN
PS NEXT	1 $\leq$ f $\leq$ 100 MHz	32.3 - 15 LOG(f/100) dB MIN
NEXT	1 $\leq$ f $\leq$ 100 MHz	35.3 - 15 LOG(f/100) dB MIN
PS ACRF	1 $\leq$ f $\leq$ 100 MHz	20.8 - 20 LOG(f/100) dB MIN
ACRF	1 $\leq$ f $\leq$ 100 MHz	23.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	1 $\leq$ f $\leq$ 100 MHz	1.5[1.967 $\sqrt{f}$ + 0.023(f) + 0.050/ $\sqrt{f}$ ] dB MAX
DELAY	1 $\leq$ f $\leq$ 100 MHz	534 + 36/ $\sqrt{f}$ ns MAX
DELAY SKEW	1 $\leq$ f $\leq$ 100 MHz	<25 ns
LCL	1 $\leq$ f $\leq$ 100 MHz	-38 dB MIN
VELOCITY OF PROPAGATION	68%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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TITLE		
DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CABLE – 4 PR SCREENED		
DRAWING #	QWC0069	2 of 2

CUSTOMER APPROVAL:

DATE: