

1) CONSTRUCTION:

CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.	.019"
INSULATION:	POLYOLEFIN, .010" NOM. WALL THICKNESS		.039" MAX.
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.078"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A CLEAR POLYESTER BINDER TO FORM A CABLE CORE.		.162"
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.		.181"
JACKET:	THERMOPLASTIC ELASTOMER, (COLOR, PER CHART 1), .032" NOM. WALL THICKNESS (PRESSURE)	OVERALL CABLE DIAMETER	.245" NOM. (± .007") (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C (JACKET 105°C, 60°C OIL)
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	37.6 LBS.
JACKET IS SUNLIGHT RESISTANT	PER UL 2556
JACKET IS WELD SPATTER RESISTANT	
JACKET IS CUTTING/MACHINING OIL RESISTANT (PER QUABBIN TEST REPORT #TR 08-0001) (6 MONTHS @ 20°C)	
TENSILE STRENGTH RETENTION, NOM.	80%
ELONGATION RETENTION, NOM.	100%

CHART 1:

QUABBIN P/N	JACKET COLOR
5734	BLACK
5735	BLUE
5736	TEAL

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CMX OUTDOOR - CM
 CEC C(UL) TYPE CMX OUTDOOR - CM
 EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

5) APPLICATION:

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)

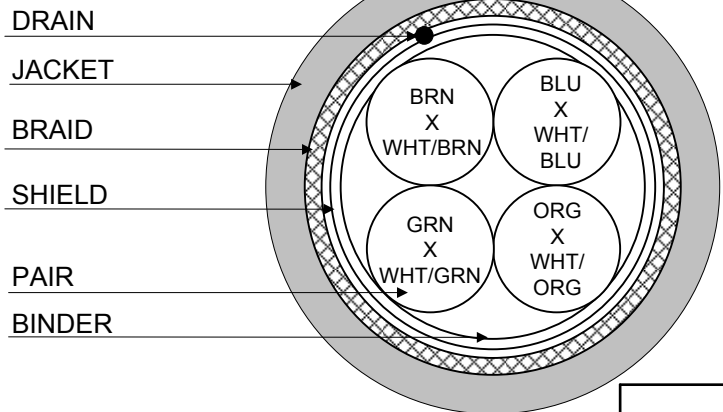
QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CORD CAT 5e SF/UTP P/N (**P/N PER CHART 1**) -- C(UL)US TYPE CMX OUTDOOR - CM 4PR 26 AWG 75C -- CE RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

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



Created 7/27/12	DRAWN: SGH 03/22/19	
REV. 05	CHECKED: ZRS 03/25/19	
TITLE DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CABLE - 4 PR SCREENED		
DRAWING #		QWC0040
		1 of 2

CUSTOMER APPROVAL:


DATE:

3) ELECTRICAL CHARACTERISTICS:

POE COMPLIANT TO 68 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184
 CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 68 METER LENGTH
 CAPACITANCE, MUTUAL 13.5 PF/FT. AT 1 MHz
 DIELECTRIC WITHSTANDING, MIN. 1500V RMS
 VOLTAGE RATING, MAX. 300V
 D.C. RESISTANCE, MAX. 42.6 Ω /1000'

NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL. (FOR 100m OF CABLE)

IMPEDANCE	100 \pm 15 Ω 1 - 100 MHz
IMPEDANCE, SMOOTHED	100 \pm 10 Ω TYPICAL 5 - 100 MHz
RETURN LOSS	$1 \leq f < 10$ MHz 20 + 5LOG (f) dB MIN $10 \leq f < 20$ MHz 25 dB MIN $20 \leq f \leq 100$ MHz 25 - 8.6LOG(f/20) dB MIN
PS NEXT	$1 \leq f \leq 100$ MHz 32.3 - 15LOG (f/100) dB MIN
NEXT	$1 \leq f \leq 100$ MHz 35.3 - 15LOG (f/100) dB MIN
PS ACRF	$1 \leq f \leq 100$ MHz 20.8 - 20LOG(f/100) dB MIN
ACRF	$1 \leq f \leq 100$ MHz 23.8 - 20LOG(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 <15 ns
VELOCITY OF PROPAGATION	68%

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TITLE		
DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CABLE – 4 PR SCREENED		
DRAWING #	QWC0040	2 of 2

CUSTOMER APPROVAL:

DATE: