

1) CONSTRUCTION:

CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.	.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .010" NOM. WALL THICKNESS		.039"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.078"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE WRAPPED WITH A CLEAR POLYESTER BINDER.		.170"
SHIELD:	AN ALUMINIZED POLYESTER FOIL SHIELD (FOIL IN) WITH A 26 AWG TINNED COPPER DRAIN WIRE IN CONTACT WITH METALIZED SURFACE (100% COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE.		.173"
JACKET:	THERMOPLASTIC ELASTOMER, (COLOR, PER CHART 1) , .032" NOM. WALL THICKNESS (PRESSURE)	OVERALL CABLE DIAMETER	.237" NOM. (± .010") (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C (JACKET 105°C, 75°C OIL)
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	27.2 LBS.
BEND RADIUS	1.9" STATIC BEND
JACKET IS WELD SPATTER RESISTANT	
JACKET IS SUNLIGHT RESISTANT	PER UL 2556
JACKET CUTTING/MACHINING OIL RESISTANCE (PER QUABBIN TEST REPORT #TR 08-0001) (6 MONTHS @ 20°C)	
TENSILE STRENGTH RETENTION, NOM.	80%
ELONGATION RETENTION, NOM.	100%

POE COMPLIANT (802.3af) TO 67 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184
CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 67 METER LENGTH

CHART 1:

QUABBIN P/N	JACKET COLOR
5760	BLACK
5761	BLUE
5762	TEAL
5763	RED

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CMX OUTDOOR-CM
CEC C(UL) TYPE CMX OUTDOOR-CM

5) APPLICATION:

SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO
SUPPORT SCREENED ISO 11801 CLASS D AND
SCREENED 568-C.2 CATEGORY 5e APPLICATIONS.
RoHS COMPLIANT MATERIALS.

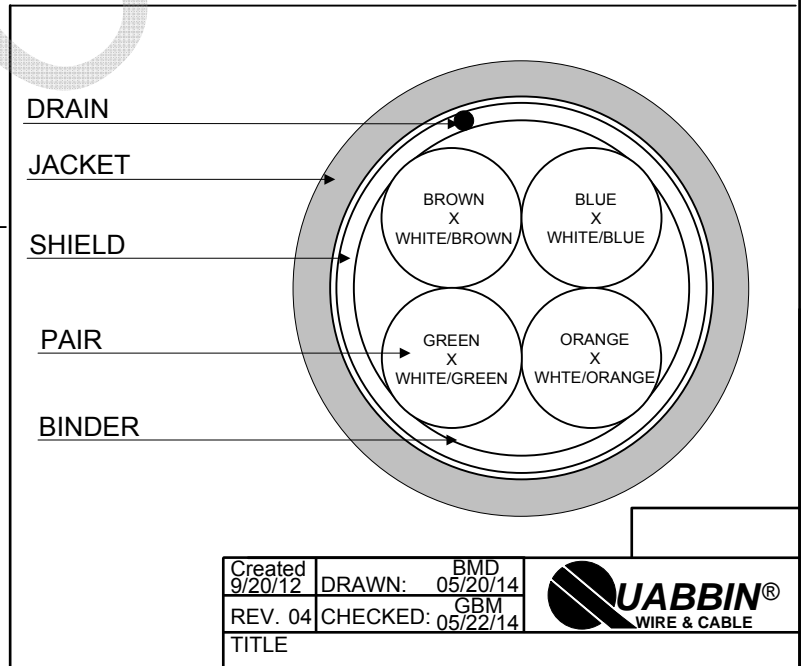
6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL
ETHERNET/IP PATCH CORD CAT 5e F/UTP P/N
(QWC P/N PER CHART 1) -- C(UL)US TYPE CMX
OUTDOOR - CM 4PR 26 AWG 75C SUN RES -- RoHS --
(LOT DESIGNATOR)
(SEQUENTIAL FOOTAGE)

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 9/20/12	DRAWN: BMD 05/20/14	
REV. 04	CHECKED: GBM 05/22/14	
TITLE DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET/IP PATCH CABLE - 4 PR SCREENED		
DRAWING #		QWC0044
		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.	14.0 Ω	
IMPEDANCE, NOM.	100 +/- 15 Ω 1-100 MHz	
RETURN LOSS	1 $\leq f < 10$ MHz	20 + 6 LOG(f) dB MIN*
	10 $\leq f < 20$ MHz	26 dB MIN*
	20 $\leq f \leq 100$ MHz	26 - 5 LOG($f/20$) dB MIN*
NEXT	1 $\leq f \leq 100$ MHz	35.3 - 15 LOG($f/100$) dB MIN
PSNEXT	1 $\leq f \leq 100$ MHz	32.3 - 15 LOG($f/100$) dB MIN
ACRF	1 $\leq f \leq 100$ MHz	23.8 - 20 LOG($f/100$) dB MIN
PSACRF	1 $\leq f \leq 100$ MHz	20.8 - 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	<25ns
COUPLING ATTENUATION	30 $\leq f \leq 250$ MHz	100 - 20 LOG(F) (MAX 60 dB) E3*
VELOCITY OF PROPAGATION	68%	

*PER ODVA VOLUME 2 ETHERNET/IP

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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TITLE		
DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET/IP PATCH CABLE - 4 PR SCREENED		
DRAWING #	QWC0044	2 of 2

CUSTOMER APPROVAL:

DATE: