

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.	24.5 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%

CHART 1:

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

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

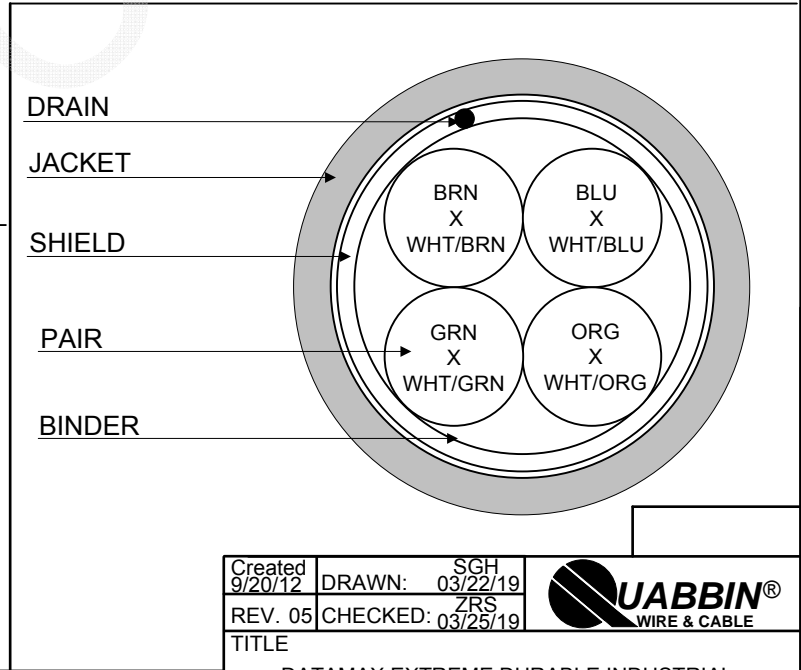
4) AGENCY APPROVALS:
 NEC (UL) TYPE CMX OUTDOOR-CM
 CEC C(UL) TYPE CMX OUTDOOR-CM
 EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

5) APPLICATION:
 SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED ISO 11801 CLASS D AND SCREENED 568.2-D CATEGORY 5e APPLICATIONS.

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
(P/N PER CHART 1) -- C(UL)US TYPE CMX OUTDOOR - CM 4PR 26 AWG 75C SUN RES -- 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 9/20/12	DRAWN: SGH 03/22/19	
REV. 05	CHECKED: ZRS 03/25/19	
TITLE DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET/IP PATCH CABLE - 4 PR SCREENED		
DRAWING #		1 of 2


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, NOM. 13.5 PF/FT. AT 1 MHz
 DIELECTRIC WITHSTANDING, MIN. 1500V RMS
 VOLTAGE RATING, MAX. 300V
 D.C. RESISTANCE, MAX. 42.6 Ω/1,000'

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

IMPEDANCE, NOM.	100 ± 15 Ω 1 - 100 MHz	
RETURN LOSS	1 ≤ f < 10 MHz	20 + 6 LOG(f) dB MIN*
	10 ≤ f < 20 MHz	26 dB MIN*
	20 ≤ f ≤ 100 MHz	26 - 5 LOG(f/20) dB MIN*
NEXT	1 ≤ f ≤ 100 MHz	35.3 - 15 LOG(f/100) dB MIN
PSNEXT	1 ≤ f ≤ 100 MHz	32.3 - 15 LOG(f/100) dB MIN
ACRF	1 ≤ f ≤ 100 MHz	23.8 - 20 LOG(f/100) dB MIN
PSACRF	1 ≤ f ≤ 100 MHz	20.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	1 ≤ f ≤ 100 MHz	1.5[1.967 √f + 0.023(f) + 0.050/√f] dB MAX
DELAY	1 ≤ f ≤ 100 MHz	534 + 36/√f ns MAX
DELAY SKEW	1 ≤ f ≤ 100 MHz	<25 ns
COUPLING ATTENUATION	30 ≤ f ≤ 250 MHz	100 - 20 LOG(f) (MAX 60 dB) E3*
VELOCITY OF PROPAGATION	68%	

*PER ODVA VOLUME 2 ETHERNET/IP

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DRAWING #		2 of 2

CUSTOMER APPROVAL:

DATE: