QWC0031

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .010" NOM. WALL THICKNESS	.039" MAX O. D.
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.078"
CABLE:	(2) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A CLEAR POLYESTER BINDER TO FORM A CABLE CORE.	.158"
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.	.180"
JACKET:	POLYVINYLCHLORIDE, **(COLOR, PER CHART 1)**, .022" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER	.224" .246" MAX. (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	27.1 LBS.

CHART 1:

QUABBIN P/N	JACKET COLOR
5060	BLACK
5061	BLUE
5062	TEAL

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

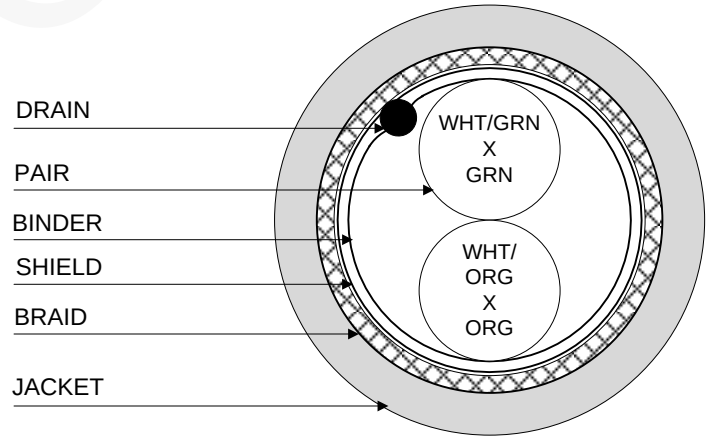
4) AGENCY APPROVALS:
NEC (UL) TYPE CMR
CEC C(UL) TYPE CMR
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

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 **(QWC P/N PER CHART 1)** -- C(UL)US
TYPE CMR 2PR 26 AWG 75C -- CE RoHS -- **(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)**

7) COLOR CODE:
1. GREEN X WHITE/GREEN
2. ORANGE X WHITE/ORANGE

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



Created 12/27/11	DRAWN: SGH 03/25/20	QUABBIN® WIRE & CABLE
REV. 02	CHECKED: ZRS 03/27/20	

TITLE
DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CABLE – 2 PR SCREENED

QUABBIN P/N QWC0031 | 1 of 2

CUSTOMER APPROVAL: **DATE:**

3) ELECTRICAL CHARACTERISTICS:

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/1000'

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

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

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QUABBIN P/N QWC0031 2 of 2