

1) CONSTRUCTION:

CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.	.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .010" NOM. WALL THICKNESS		.040" 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.		.156"
SHIELD:	AN OVERALL ALUMINIZED POLYESTER FOIL SHIELD (FOIL IN, 100% COVERAGE) WITH A 26 AWG 7/34 STRANDED TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE SHALL BE APPLIED OVER THE CABLE CORE.		.165"
JACKET:	THERMOPLASTIC ELASTOMER, (COLOR, PER CHART 1), .038" NOM. WALL THICKNESS (PRESSURE)	OVERALL CABLE DIAMETER	.209" ± .010" (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.	20.7 LBS.

JACKET IS UV RESISTANT

CHART 1:

QUABBIN P/N	JACKET COLOR
5035	BLACK
5036	BLUE
5037	TEAL
5038	RED
5039	(TBD)

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CM
 CEC C(UL) TYPE 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)

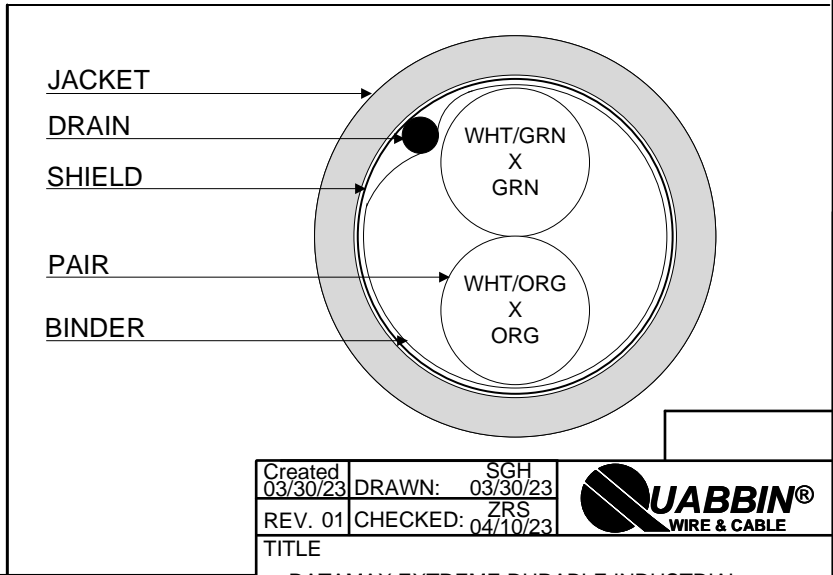
QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CORD F/UTP P/N (QWC P/N PER CHART 1)
 -- TYPE CM C(UL)US 2PR 26 AWG 75C -- CAT 5e TIA-568.2-D -- CE RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

7) COLOR CODE:

1. GREEN X WHITE/GREEN
2. ORANGE X WHITE/ORANGE

8) PACKAGING:

TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



CUSTOMER APPROVAL:

DATE:

Created 03/30/23	DRAWN: SGH 03/30/23	
REV. 01	CHECKED: ZRS 04/10/23	
TITLE DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CABLE -- 2 PR -- C(UL)US CM		
DRAWING#	QWMC0167	1 of 2

3) ELECTRICAL CHARACTERISTICS:


CAPACITANCE, MUTUAL, NOM.	13.5 pF/FT. AT 1 MHz @ 20°C
DIELECTRIC WITHSTANDING, MIN.	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, MAX.	42.6 Ω/1000' @ 20°C

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 ≤ f < 10 MHz	20 + 5 LOG(f) dB MIN
	10 ≤ f < 20 MHz	25 dB MIN
	20 ≤ f ≤ 100 MHz	25 – 8.6 LOG(f/20) dB MIN
NEXT	1 ≤ f ≤ 100 MHz	35.3 – 15 LOG(f/100) dB MIN
ACRF	1 ≤ f ≤ 100 MHz	23.8 – 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
LCL	1 ≤ f ≤ 100 MHz	-38 dB MIN
VELOCITY OF PROPAGATION	68%	

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DRAWING#		QWC0167
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