

1) CONSTRUCTION:

CONDUCTOR:	24 AWG SOLID BARE COPPER	NOM. DIA.	.0215"
INSULATION:	HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS		.039"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.078"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH AN OVERALL CLEAR POLYESTER TAPE TO FORM A CABLE CORE		.174"
JACKET:	THERMOPLASTIC ELASTOMER, TEAL, .033" NOM. WALL THICKNESS (PRESSURE)	OVERALL CABLE DIAMETER	.240" ± .010"

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C (JACKET 105°C, 75°C OIL)
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	26.3 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%
POE COMPLIANT (802.3af) TO 100 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184	
CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 100 METER LENGTH	

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

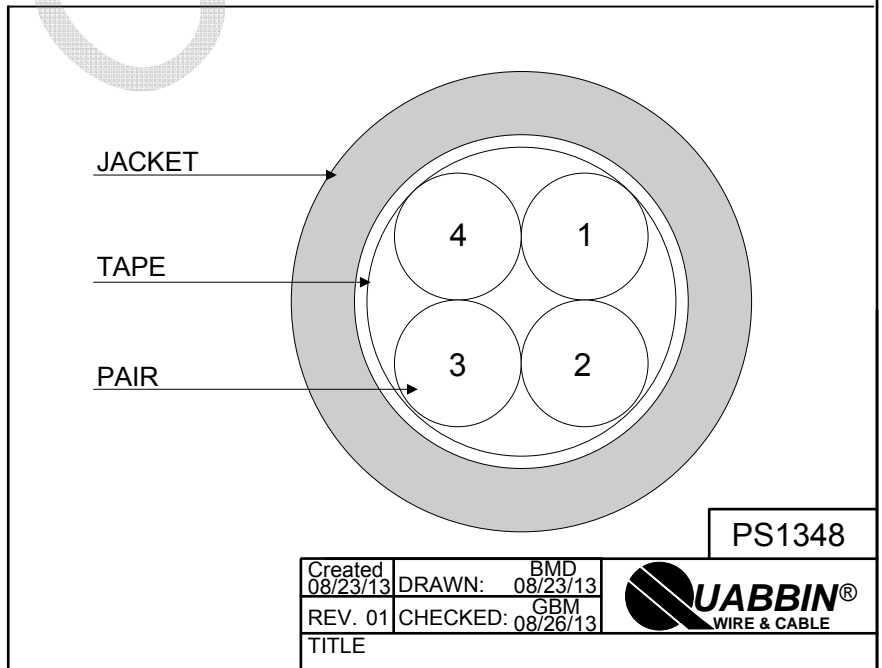
4) AGENCY APPROVALS:
UL AWM STYLE 2463 (80C 600V)
NEC (UL) TYPE CM
CEC C(UL) TYPE CM

5) APPLICATION:
HORIZONTAL CABLE FOR INDUSTRIAL ETHERNET CAT 5e APPLICATIONS. RoHS COMPLIANT MATERIALS.

6) PRINT:
QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET/IP COMPLIANT CAT 5e U/UTP HORIZONTAL P/N 9415 -- C(UL)US TYPE CM 4PR 24 AWG 75C SUN RES OR AWM 2463 80C 600V -- RoHS --
(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

7) COLOR CODE:
1. WHITE/BLUE X BLUE
2. WHITE/ORANGE X ORANGE
3. WHITE/GREEN X GREEN
4. WHITE/BROWN X BROWN

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



PS1348

Created 08/23/13	DRAWN: BMD 08/23/13
REV. 01	CHECKED: GBM 08/26/13



TITLE
DATAMAX EXTREME INDUSTRIAL ETHERNET
CABLE -- 4 PR -- TYPE CM -- CAT 5e

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CUSTOMER APPROVAL:

DATE:

3) ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)

CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz	
DIELECTRIC WITHSTANDING, MIN.	2000V RMS	
VOLTAGE RATING, MAX.	600V	
D.C. RESISTANCE, MAX.	9.38 Ω	
IMPEDANCE	100 +/- 15 Ω 1-100 MHz	
RETURN LOSS	$1 \leq f < 10$ MHz	20 + 5 LOG(f) dB MIN
	$10 \leq f < 20$ MHz	25 dB MIN
	$20 \leq f \leq 100$ MHz	25 - 7 LOG($f/20$) dB MIN
PSNEXT	$1 \leq f \leq 100$ MHz	32.3 - 15 LOG($f/100$) dB MIN
NEXT	$1 \leq f \leq 100$ MHz	35.3 - 15 LOG($f/100$) dB MIN
PSACRF	$1 \leq f \leq 100$ MHz	20.8 - 20 LOG($f/100$) dB MIN
ACRF	$1 \leq f \leq 100$ MHz	23.8 - 20 LOG($f/100$) dB MIN
INSERTION LOSS	$1 \leq f \leq 100$ MHz	$1.967 \sqrt{f} + 0.023(f) + 0.050/\sqrt{f}$ dB MAX
DELAY	$1 \leq f \leq 100$ MHz	$534 + 36/\sqrt{f}$ ns MAX
DELAY SKEW	$1 \leq f \leq 100$ MHz	<25ns

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL

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