

1) CONSTRUCTION:		NOM. DIA.
CONDUCTOR:	24 AWG SOLID TINNED COPPER	.0216"
INSULATION:	HIGH DENSITY POLYETHYLENE, .013" NOM. WALL THICKNESS	.047"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.094"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A CLEAR POLYESTER TAPE TO FORM A CABLE CORE	.194"
SHIELDS:	AN OVERALL ALUMINUM POLYESTER TAPE (FOIL OUT, 100% COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE AND SHALL INCLUDE A 24 AWG STRANDED TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE. A SECOND SHIELD OF 38 AWG TINNED COPPER BRAID (80% MINIMUM COVERAGE) SHALL BE APPLIED OVER THE FOIL SHIELD.	.216"
JACKET:	THERMOPLASTIC ELASTOMER, TEAL, .032" NOM. WALL THICKNESS (PRESSURE)	OVERALL CABLE DIAMETER .285" ± .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.	43.3 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%

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

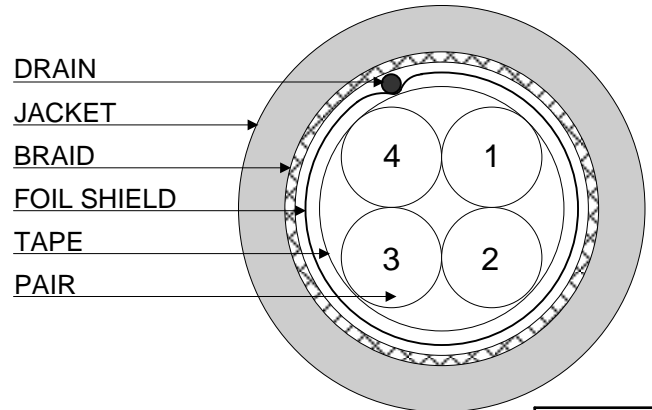
4) AGENCY APPROVALS:
UL AWM STYLE 2463 (80C 600V)
NEC (UL) TYPE CM
CEC C(UL) TYPE CM
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

5) APPLICATION:
HORIZONTAL CABLE FOR CAT 5e APPLICATIONS.

6) PRINT:
QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET/IP CAT 5e SF/UTP HORIZONTAL P/N 5927 -- C(UL)US TYPE CM 4PR 24 AWG 75C SUN RES OR AWM 2463 80C 600V -- CE 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



PS1514

Created 03/06/14	DRAWN: SGH 05/30/19	
REV. 02	CHECKED: ZRS 05/30/19	
TITLE DATAMAX EXTREME INDUSTRIAL ETHERNET/IP CABLE -- 4 PR -- TYPE CM, STYLE 2463 -- CAT 5e		
DRAWING#		5927
		1 of 2

CUSTOMER APPROVAL: _____ DATE: _____

3) ELECTRICAL CHARACTERISTICS:

POE COMPLIANT TO 100 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184	
CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 100 METER LENGTH	
CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz
DIELECTRIC WITHSTANDING, MIN.	2000V RMS
VOLTAGE RATING, MAX.	600V
D.C. RESISTANCE, MAX.	26.2 Ω /1,000' (9.38 Ω /100m)

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

IMPEDANCE	100 \pm 15 Ω	1 - 100 MHz
RETURN LOSS	$1 \leq f < 10$ MHz $10 \leq f < 20$ MHz $20 \leq f \leq 100$ MHz	20 + 6 LOG(f) dB MIN* 26 dB MIN* 26 - 5 LOG(f /20) dB MIN*
PS NEXT	$1 \leq f \leq 100$ 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	<25 ns
COUPLING ATTENUATION	$30 \leq f \leq 100$ MHz	60 dB MIN E_3^*

*PER ODVA VOLUME 2 ETHERNET/IP

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TITLE

DATAMAX EXTREME INDUSTRIAL ETHERNET/IP
CABLE -- 4 PR - TYPE CM, STYLE 2463 -- CAT 5e

DRAWING#

5927

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CUSTOMER APPROVAL:

DATE: