

1) CONSTRUCTION:		NOM. DIA.
CONDUCTOR:	24 AWG SOLID TINNED COPPER	.0216"
INSULATION:	HIGH DENSITY POLYETHYLENE, .013" NOM. WALL THICKNESS	.0485"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.097"
CABLE:	(2) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A CLEAR POLYESTER TAPE TO FORM A CABLE CORE	.184"
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.	.206"
JACKET:	THERMOPLASTIC ELASTOMER, TEAL, .032" NOM. WALL THICKNESS	.270" ± .010"
	(PRESSURE) OVERALL CABLE DIAMETER	

2) PHYSICAL PROPERTIES:	
TEMPERATURE RATING, MAX.	75°C (JACKET 105°C, 75°C OIL)
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	34.6 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

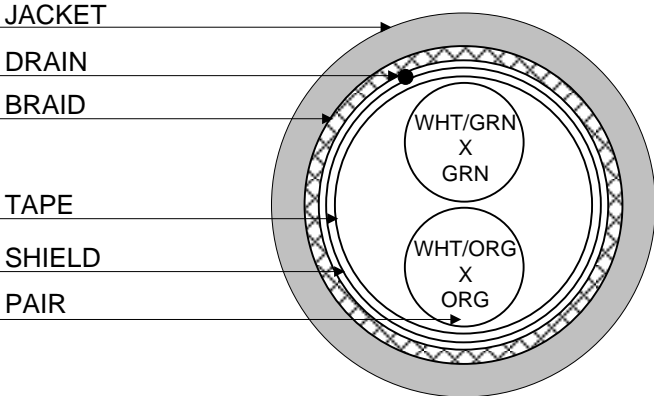
4) AGENCY APPROVALS:  
NEC (UL) TYPE CM  
CEC C(UL) TYPE CM  
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

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

6) PRINT:  
QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET/IP CAT 5e SF/UTP HORIZONTAL P/N 5926 -- C(UL)US TYPE CM 2PR 24 AWG 75C SUN RES -- CE RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

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

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



JACKET

DRAIN

BRAID

TAPE


SHIELD

PAIR

WHT/GRN  
X  
GRN

WHT/ORG  
X  
ORG

PS1524

Created 03/07/14	DRAWN: SGH 05/23/19	
REV. 02	CHECKED: ZRS 05/28/19	
TITLE		
DATAMAX EXTREME INDUSTRIAL ETHERNET/IP CABLE -- 2 PR -- TYPE CM -- CAT 5e		
QUABBIN P/N	5926	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. 1500V RMS  
 VOLTAGE RATING, MAX. 300V  
 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 ± 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
ACRF	1 ≤ f ≤ 100 MHz	23.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	1 ≤ f ≤ 100 MHz	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 ≤ 100 MHz	60 dB MIN E <sub>3</sub> *

\*PER ODVA VOLUME 2 ETHERNET/IP

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TITLE DATAMAX EXTREME INDUSTRIAL ETHERNET/IP CABLE -- 2 PR -- TYPE CM -- CAT 5e	
QUABBIN P/N	5926
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CUSTOMER APPROVAL:

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