

1) CONSTRUCTION:		NOM. DIA.
CONDUCTOR:	22 AWG SOLID TINNED COPPER	.0254"
INSULATION:	HIGH DENSITY POLYETHYLENE, .012" NOM. WALL THICKNESS	.050"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.100"
CABLE:	(2) TWISTED PAIRS TWISTED TOGETHER WITH FILLER AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE.	.200"
SHIELDS:	AN OVERALL SHIELD OF 38 AWG TINNED COPPER BRAID (75% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE CABLE CORE. A SECOND SHIELD OF ALUMINIZED POLYESTER FOIL (FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE BRAID.	.219"
JACKET:	THERMOPLASTIC ELASTOMER, GREEN (CR# 70), .043" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER	.305" (.315" MAX.) BY PI TAPE

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX. 75°C & 80°C (JACKET 105°C, 75°C OIL)

TEMPERATURE RATING, MIN. -40°C (MANUFACTURER'S RECOMMENDED)

WT./M', NOM., NET. 49.1 LBS.

JACKET IS WELD SPATTER RESISTANT

JACKET IS SUNLIGHT 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 PLTC

NEC (UL) TYPE ITC

PENNSYLVANIA D.E.P. - MSHA

5) APPLICATION:

HORIZONTAL CABLE FOR PROFINET TYPE A CAT 5e APPLICATIONS. RoHS COMPLIANT MATERIALS.

U.S. PATENT NO. US 8,487,184 B2

6) PRINT:

QUABBIN DATAMAX INDUSTRIAL PROFINET TYPE A CAT 5E SHIELDED P/N 5923 -- U.S. PATENT NO. US 8,487,184 B2 -- (UL) TYPE PLTC 2PR 22 AWG SF/UTP 75C

SUNLIGHT RESISTANT OIL RES II OR ITC OR AWM 2463 80C 600V -- P-07-KA140018-MSHA -- RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

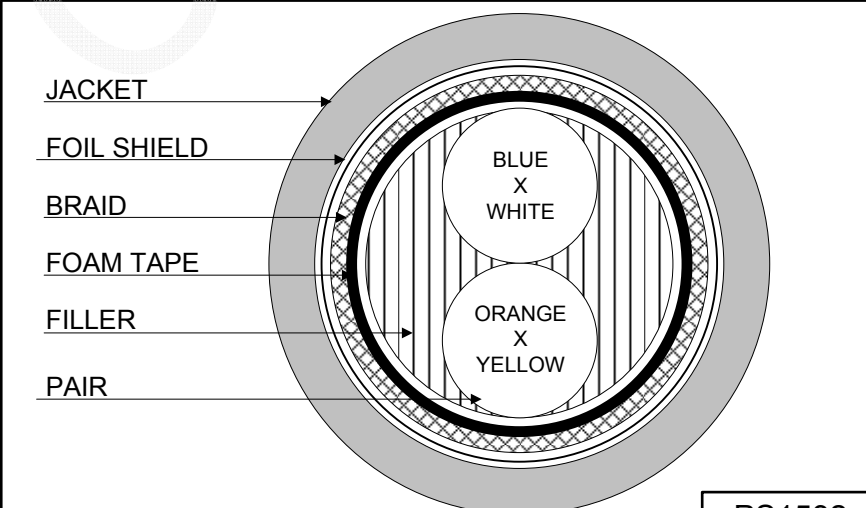
7) COLOR CODE:

1. BLUE X WHITE

2. ORANGE X YELLOW

8) PACKAGING:

TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



PS1532

Created 12/30/13	DRAWN: BMD 12/12/14	
REV. 03	CHECKED: GBM 12/17/14	
TITLE DATAMAX EXTREME INDUSTRIAL ETHERNET CABLE -- 2 PR -- TYPE PLTC, TYPE ITC, MSHA -- CAT 5e, PROFINET		
QUABBIN P/N	5923	1 of 2


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.	6.2 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
NEXT	1 $\leq f \leq 100$ MHz	35.3 - 15 LOG($f/100$) dB MIN
ACRF	1 $\leq f \leq 100$ MHz	23.8 - 20 LOG($f/100$) dB MIN
ATTENUATION	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	1-100 MHz	≤ 20 ns Per IEC 61156-5
COUPLING ATTENUATION	30-100 MHz	≥ 80 dB Segregation class d acc. EN 50174-2
VELOCITY OF PROPAGATION	69%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL

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QUABBIN P/N	5923	2 of 2

CUSTOMER APPROVAL:

DATE: