5921

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	22 AWG 19/.0058 STRANDED TINNED COPPER	.0280"
INSULATION:	HIGH DENSITY POLYETHYLENE, .013" NOM. WALL THICKNESS	.054"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.108"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE.	.245"
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.	.264"
JACKET:	THERMOPLASTIC ELASTOMER, TEAL, .041" NOM. WALL THICKNESS	
(PRESSURE)	OVERALL CABLE DIAMETER	.345" ± .010"

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.	58.4 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%
FLEX LIFE (PENDING)	
(126 CYCLES/MIN, @ 20°C)	1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS)
	10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)
TORSION TEST (PENDING)	
(1 LB LOAD, 360°, 71 CYCLES/MIN, @ 20°C)	3 MILLION CYCLE TEST

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

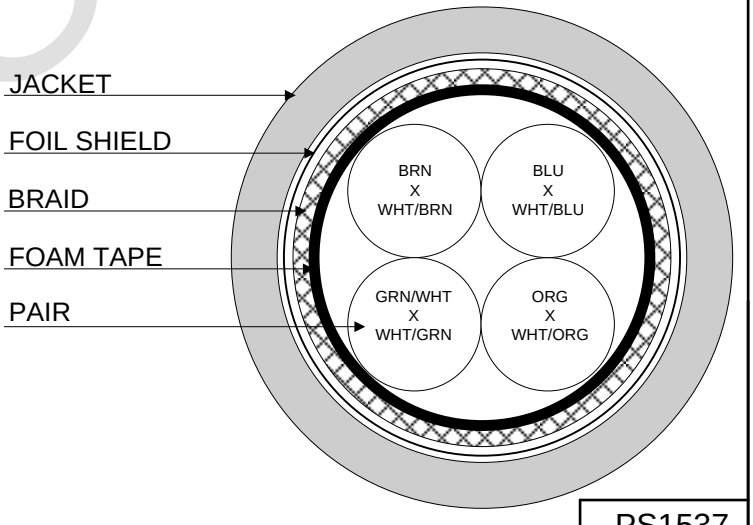
4) AGENCY APPROVALS:
UL AWM STYLE 2463 (80C 600V)
NEC (UL) TYPE PLTC
NEC (UL) TYPE ITC

5) APPLICATION:
PATCH CABLE FOR CAT 5e APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY. RoHS COMPLIANT MATERIALS. U.S. PATENT NO. US 8,487,184 B2

6) PRINT:
QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD CAT 5e SF/UTP P/N 5921 -- U.S. PATENT NO. US 8,487,184 B2 -- E70148 (UL) PLTC 4PR 22 AWG 75C SUNLIGHT RESISTANT OIL RES II OR ITC OR AWM 2463 80C 600V -- RoHS -- **(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)**

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

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



PS1537

Created 10/23/13	DRAWN:	BMD 04/18/16	QUABBIN® WIRE & CABLE
REV. 02	CHECKED:	GBM 04/20/16	

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

QUABBIN P/N	5921	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.	6.0 Ω	
IMPEDANCE	100 +/- 15 Ω 1-100 MHz	
RETURN LOSS	1-10 MHz	20 + 6 LOG(F) dB MIN*
	10-20 MHz	26 dB MIN*
	20-100 MHz	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	≤ 20ns Per IEC 61156-5
COUPLING ATTENUATION	$30 \leq f \leq 100$ MHz	≥ 60 dB E3*
VELOCITY OF PROPAGATION	69%	

*PER ODVA VOLUME 2 ETHERNET/IP

NOTE: ALL TESTING IS DONE OFF THE REEL.

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TITLE

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

CUSTOMER APPROVAL: **DATE:**

QUABBIN P/N 5921 2 of 2