

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:	(2) TWISTED PAIRS TWISTED TOGETHER WITH FILLER AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE.	.214"
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.	.233"
JACKET:	THERMOPLASTIC ELASTOMER, TEAL, .042" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER	.317" +.005"/-.010"

2) PHYSICAL PROPERTIES:		
TEMPERATURE RATING, MAX.		75°C & 80°C (JACKET 105°C, 75°C OIL)
TEMPERATURE RATING, MIN. (STATIC)		-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%	
FLEX LIFE		
(126 CYCLES/MIN, @ 20°C)		3 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS)
		10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)
TORSION TEST		
(1 LB LOAD, 360°, 71 CYCLES/MIN, @ 20°C)		5 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

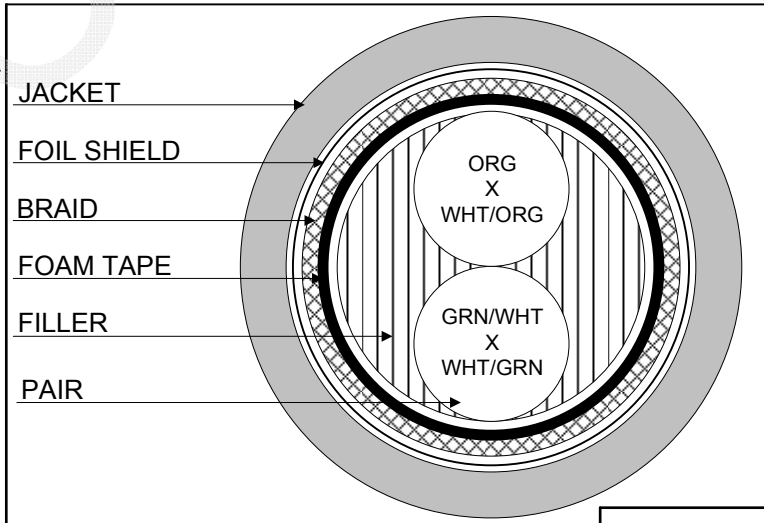
4) AGENCY APPROVALS:
UL AWM STYLE 2463 (80C, 600V)
NEC (UL) TYPE PLTC (75C, 300V)
NEC (UL) TYPE ITC (75C, 300V)
NEC (UL) TYPE CMX OUTDOOR - CM (75C, 300V)
CEC C(UL) TYPE CMX OUTDOOR - CM (75C, 300V)

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 I.E./IP PATCH CORD CAT 5e SF/UTP P/N 5920 -- U.S. PATENT NO. US 8,487,184 B2 -- (UL) PLTC 2PR 22 AWG 75C SUNLIGHT RESISTANT OIL RES I & II OR ITC 75C OR C(UL)US CMX OUTDOOR - CM 75C OR AWM 2463 80C 600V -- CE RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

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

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



Created 10/23/13	DRAWN: SGH 07/18/18	
REV. 03	CHECKED: ZRS 07/18/18	
TITLE DATAMAX EXTREME INDUSTRIAL ETHERNET/IP CABLE -- 2 PR -- 2463, PLTC, ITC, CMX OUTDOOR - CM -- CAT 5e		
QUABBIN P/N	5920	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 \pm 15 Ω 1 - 100 MHz	
RETURN LOSS	1 \leq f < 10 MHz	20 + 6 LOG(f) dB MIN*
	10 \leq f < 20 MHz	26 dB MIN*
	20 \leq f \leq 100 MHz	26 - 5 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
INSERTION LOSS	1 \leq f \leq 100 MHz	1.02[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	\leq 20ns Per IEC 61156-5**
COUPLING ATTENUATION	30 \leq f \leq 100 MHz	\geq 60 dB E3*
VELOCITY OF PROPAGATION	69%	

*PER ODVA VOLUME 2 ETHERNET/IP

**PER PROFINET Cabling and Interconnection Technology

NOTE: ALL TESTING IS DONE OFF THE REEL.

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QUABBIN P/N	5920	2 of 2

CUSTOMER APPROVAL:

DATE: