

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" (BY CALIPER)

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.	49.2 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

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

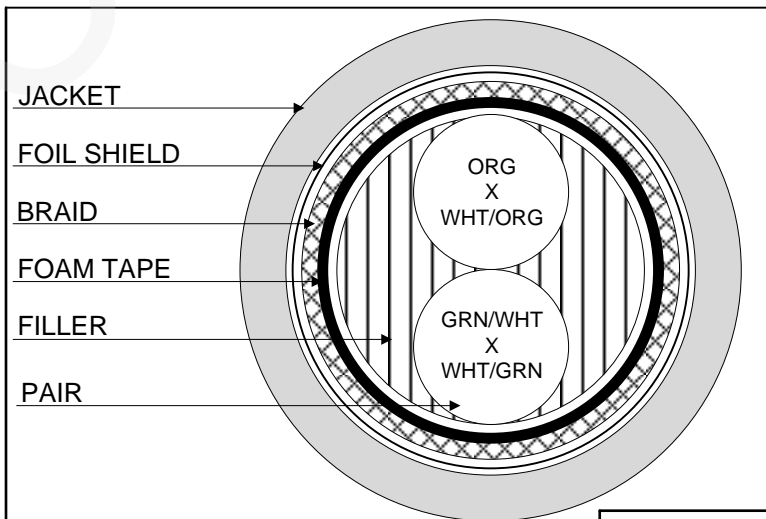
4) AGENCY APPROVALS:
UL AWM STYLE 2463 (80C, 600V)
NEC (UL) TYPE PLTC (75C, 300V)
NEC (UL) TYPE ITC (75C, 300V)
NEC (UL) TYPE CMX OUTDOOR - CM (75C, 300V)
CEC C(UL) TYPE CMX OUTDOOR - CM (75C, 300V)
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

5) APPLICATION:
PATCH CABLE FOR CAT 5e APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY. 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 04/26/21	
REV. 05	CHECKED: JFR 4/26/21	
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:


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.	15.9 Ω /1,000'

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	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

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