

1. CONSTRUCTION:

CONDUCTOR: 24 AWG 7/32 STRANDED TINNED COPPER. NOM. DIA. .0236"  
 INSULATION: HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS .047"  
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS .094"  
 CABLE: (2) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE. .160"  
 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. .191"  
 JACKET: THERMOPLASTIC ELASTOMER, (COLOR PER CHART 1), .037" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER .265" ±.010" (BY CALIPER)

CABLE LENGTH: 1000FT

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. 36.0 LBS.  
 JACKET IS WELD SPATTER RESISTANT  
 JACKET IS SUNLIGHT RESISTANT  
 FLEX LIFE (126 CYCLES/MIN, @ 20°C) 1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS)  
 20 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)

TORSION TEST (1 LB LOAD, 360°, 71 CYCLES/MIN, @ 20°C) 3 MILLION CYCLE TEST  
 JACKET CUTTING/MACHINING OIL RESISTANCE (6 MONTHS @ 20°C)

TENSILE STRENGTH RETENTION, NOM. 80%  
 ELONGATION RETENTION, NOM. 100%

CHART 1:

| QUABBIN P/N | JACKET COLOR |
|-------------|--------------|
| 5023        | BLACK        |
| 5024        | GRAY         |
| 5025        | TEAL         |
| 5027        | RED          |
| 5028        | BLUE         |
| 5029        | ORANGE       |

3. ELECTRICAL CHARACTERISTICS:

POE COMPLIANT TO 85 METERS AND SUITABLE FOR APPLICABLE PARTS OF IEEE 802.3 TYPES 1 AND 2 WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184.  
 CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 85 METER LENGTH.  
 CAPACITANCE, MUTUAL, NOM. 13.5 PF/FT, AT 1 MHz @ 20°C  
 DIELECTRIC WITHSTANDING, MIN. 2000V RMS  
 VOLTAGE RATING, MAX 600V  
 D.C. RESISTANCE, MAX 26.5 Ω/1,000' @ 20°C

NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL. (FOR 100m OF CABLE)

IMPEDANCE 100 ± 15 Ω 1 ≤ f ≤ 100 MHz √  
 IMPEDANCE, SMOOTHED 100 ± 10 Ω TYPICAL 5 ≤ f ≤ 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\*

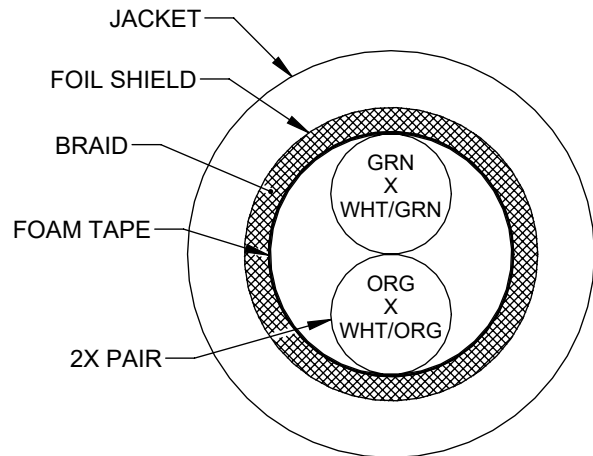
NEXT 1 ≤ f ≤ 100 MHz 35.3 - 15 LOG(f/100) dB MIN  
 ACRF 1 ≤ f ≤ 100 MHz 23.8 - 20 LOG(f/100) dB MIN  
 INSERTION LOSS 1 ≤ f ≤ 100 MHz 1.2[1.967 √f + 0.023(f) + 0.050/√f] dB MAX  
 DELAY 1 ≤ f ≤ 100 MHz 534 + 36/√f ns MAX  
 DELAY SKEW 1 ≤ f ≤ 100 MHz <25 ns  
 COUPLING ATTENUATION 30 ≤ f ≤ 100 MHz 50 dB MINIMUM  
 PER IEC 62153-4-9  
 VELOCITY OF PROPAGATION 68%


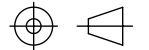
\*PER ODVA VOLUME 2 ETHERNET/IP

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| REVISION |     |             |            |            |             |
|----------|-----|-------------|------------|------------|-------------|
| ZONE     | REV | DESCRIPTION | DATE       | CHANGED BY | APPROVED    |
|          | A   | ECO-15802   | 05/13/2026 | DMAY       | DGUTTADAURO |

4. AGENCY APPROVALS:  
 UL AWM STYLE 2463 (80C 600V)  
 NEC (UL) TYPE CMX OUTDOOR - CM  
 CEC C(UL) TYPE CMX OUTDOOR - CM  
 EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)
5. APPLICATION:  
 PATENT NO. US 8,487,184 B2
6. PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)  
 QUABBIN DATAMAX EXTREME INDUSTRIAL ETHERNET/IP  
 PATCH CORD CAT 5e SF/UTP P/N (P/N PER CHART 1) --  
 C(UL)US TYPE CMX OUTDOOR - CM 2PR 24 AWG 75C SUN RES  
 OR AWM 2463 80C 600V -- CE RoHS -- (LOT DESIGNATOR )  
 (SEQUENTIAL FOOTAGE)
7. COLOR CODE:  
 1. GREEN X WHITE/GREEN  
 2. ORANGE X WHITE/ORANGE
8. PACKAGING:  
 TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



|   |           |   |          |   |        |
|---|-----------|---|----------|---|--------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS  |           | <br><b>an INFINITE company</b><br>Website: www.L-com.com<br>Phone: 1.800.341.5266   1.978.682.6936 |          | <br>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 |        |
| TOLERANCES:<br>.X = ±.2 [5]<br>.XX = ±.02 [0.5]<br>.XXX = ±.005 [0.13]  |           |   |          | FRACTIONS<br>± 1/32<br>ANGLES ± 1°  |        |
| CABLE LENGTH TOLERANCES:<br>≤12 [305] = +1 [25] / -0<br>>12 [305] ≤ 60 [1524] = +2 [51] / -0<br>>60 [1524] ≤ 120 [3048] = +4 [102] / -0<br>>120 [3048] ≤ 300 [7620] = +6 [152] / -0<br>>300 [7620] = +5% / -0 |           | DESCRIPTION   |          | NONE  | 1 OF 1 |
| CABLE LENGTH TOL IAW IPC A-620  |           | C5E SFTP 2PR/24 STR TPE TEL 1K  |          |   |        |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY   |           |   |          |   |        |
| SIZE  | CAGE CODE | DRAWN BY  | ITEM NO. |   | REV    |
| A   | 43321     | DMAY  | TFDL5025 |   | A      |