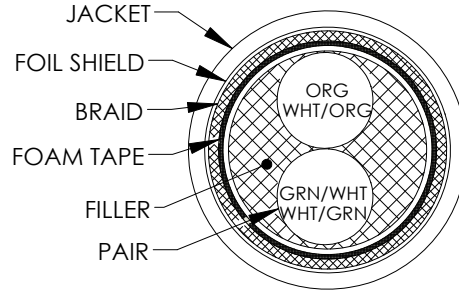


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REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
A	INITIAL RELEASE	04/23/2021	GUTTADAURO

**CROSS-SECTIONAL VIEW**



COLOR CODE:  
 1) ORANGE x WHITE/ORANGE  
 2) GREEN/WHITE x WHITE/GREEN

**NOTES:**

<b>1.CONSTRUCTION:</b>	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 38AWG 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)	.317" +.005"/-.010"
OVERALL CABLE DIAMETER	

**2.PHYSICAL PROPERTIES:**  
 TEMPERATURE RATING, MAX. 75°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 CUTTING/MACHINING OIL RESISTANT, JACKET IS SUNLIGHT RESISTANT

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)

**3.AGENCY APPROVALS:**  
 UL AWM 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)

**4.APPLICATION:**  
 PATCH CABLE FOR CAT5e APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY. RoHS COMPLIANT MATERIALS. U.S. PATENT NO. US 8,487,184 B2

**5.PRINT:**  
 QUABBIN DATAMAX EXTREME HI-FLEX I.E./IP PATCH CORD CAT 5e SF/UTP P/N 5920 -- U.S. PATENT NO. US 8,487,184 B2 -- E70148 (UL) PLTC 2PR 22 AWG 75C(UL) TYPE PLTC OIL RES I & II SUNLIGHT RESISTANT OIL RES I & II OR ITC 75C OR C(UL)US CMX OUTDOOR - CM75C OR AWM 2463 80C 600V -- RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

**6. ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)**  
 POE COMPLIANT (802.3) TO 100 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TSB-184. CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 100 METER LENGTH.

CAPACITANCE, MUTUAL, MAX.	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:**  
 $1 \leq f < 10 \text{ MHz}$  20 + 6 LOG (f) dB MIN  
 $10 \leq f < 20 \text{ MHz}$  26dB MIN  
 $20 \leq f < 100 \text{ MHz}$  26 - 5 LOG(f/20) dB MIN

**7.PACKAGING:**

PART NUMBER	PACKAGING
TFD22C5E-TEL-100F	COIL
TFD22C5E-TEL-500F	SPOOL
TFD22C5E-TEL-1000F	SPOOL

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES [mm] OVERALL CABLE LENGTH TOLERANCE: $\leq 12 [305] = +1 [25] / -0$ $>12 [305] - 60 [1524] = +2 [51] / -0$ $>60 [1524] - 120 [3048] = +4 [102] / -0$ $>120 [3048] - 300 [7620] = +6 [152] / -0$ $>300 [7620] = +5\% / -0\%$ ALL OTHER DIMENSIONAL TOLERANCES: .X = .2 [5.08] .XX = .02 [51] .XXX = .005 [13]	APPROVALS DRAWN BY DFRISIELLO CHECKED BY DGUTTADAURO APPROVED BY DGUTTADAURO	DATE 04/23/2021 04/23/2021 04/23/2021	50 HIGH STREET NORTH ANDOVER, MA 01845	
	CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY		CATEGORY TELECOM/MODULAR	
	PROJECTION 		PRODUCT DESCRIPTION Bulk C5e 2P SF/UTP POE 22STR PLTC-CM TPE TEL	
	COLOR VARIATIONS MAY OCCUR		SIZE <b>A</b>	FSCM NO. <b>43321</b>
		SCALE: N/A	CAD FILE: TFD22C5E-TELSLDRW	REV. <b>A</b> SHEET 1 OF 1