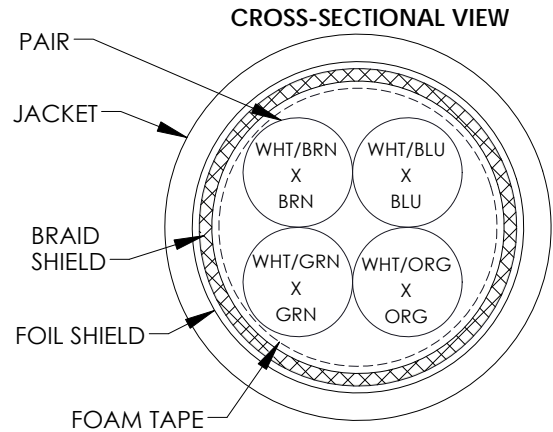
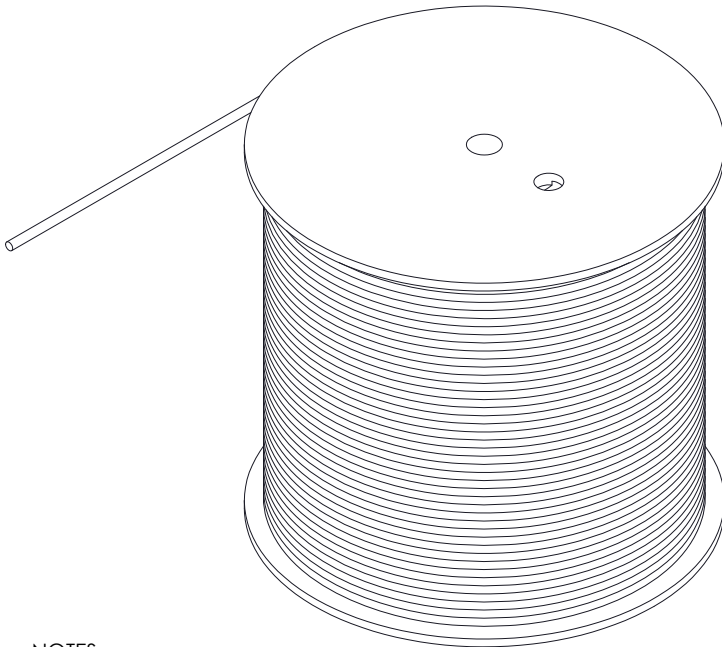


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REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
A	INITIAL RELEASE	10/09/2020	GUTTADAURO

TFDL5090 CONSISTS OF 1000FEET OF CONTINUOUS LENGTH OF BULK CABLE



COLOR CODE
 BLUE x WHITE/BLUE
 ORANGE x WHITE/ORANGE
 GREEN x WHITE/GREEN
 BROWN x WHITE/BROWN

NOTES:

1. CONSTRUCTION:

CONDUCTOR: 24 AWG 7/32 STRANDED TINNED COPPER
 INSULATION: HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS
 CABLE: (4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE
 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
 JACKET: THERMOPLASTIC ELASTOMER, COLOR: TEAL, .037" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER

NOM. DIA.
 .0236"
 .046"
 .092"
 .197"
 .216"
 0.290" ± .010"

2. PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX: +75 °C & +80 °C
 TEMPERATURE RATING, MIN: -40 °C (MANUFACTURER'S RECOMMENDED)
 WT./M', NOM., NET.: 46.7 LBS
 FLEX LIFE (PENDING)
 126 CYCLES/MIN, @ 20 °C
 TORSION TEST
 (1 LB LOAD, 360°, 71 CYCLES/MIN, @ 20 °C)
 TENSILE STRENGTH RETENTION, NOM. 4.8 MILLION CYCLE TEST
 ELONGATION RETENTION, NOM. 80%
 100%

3. ELECTRICAL CHARACTERISTICS: SEE SHEET 2

4. AGENCY APPROVALS:

UL AWM STYLE 2463 (80 °C 600V)
 NEC (UL) TYPE CMX OUTDOOR-CM
 CEC C (UL) TYPE CMX OUTDOOR-CM
 EU CE MARK: MEET EU DIRECTIVE 2011/65/EU (RoHS II)

5. APPLICATION:


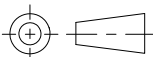
U.S. PATENT NO. US 8,487,184 B2

6. JACKET PRINT:

QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD CAT 5e SFTP P/N (MANUFACTURER P/M) - U.S. PATENT NO. US 8,487,184 B2 - C (UL) US TYPE CMX OUTDOOR-CM 4PR 24AWG 75C SUN RES OR AWM 2463 80C 600V - CE RoHS - (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

7. PACKAGING:

CABLE SHIPPED ON A REEL

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES [mm] OVERALL CABLE LENGTH TOLERANCE: ≤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 BZHANG CHECKED BY JLABOY APPROVED BY GUTTADAURO	DATE 09/24/2020 09/24/2020 09/24/2020	 an INFINIT® brand 50 High Street, West Mill, North Andover, MA 01845 USA. Phone: 1.800.341.5266 1.978.682.6936
	CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY		
PROJECTION 	COLOR VARIATIONS MAY OCCUR		PRODUCT DESCRIPTION C5E SFTP 4PR/24 STR TPE TEL
	SIZE A	FSCM NO. 43321	DWG. NO. TFDL5090
	SCALE: NONE		CAD FILE: TFDL5090.SLDRW
			REV. A SHEET 1 OF 2

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3. ELECTRICAL CHARACTERISTICS:

POE COMPLIANT TO 85 METERS WHEN INSTALLED PER RECOMMENDATION IN TIA TSB-184
 CABLE WILL MEET CAT 5E CHANNEL REQUIREMENTS TO 85 METER LENGTH
 CAPACITANCE, MUTUAL, NOM. 13.5PF/FT AT 1MHZ
 DIELECTRIC WITHSTANDING, MIN. 200V RMS
 VOLTAGE RATING, MAX. 600V
 D.C. RESISTANCE, MAX. 26.2 OHM/1,000FT(14.0 OHM/100m)


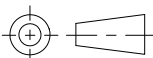
NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL(FOR 100m OF CABLE)

IMPEDANCE	100±15 OHM	1-100 MHz
IMPEDANCE , SMOOTHED	100±20 OHM TYPICAL	5-100 MHz
RETURN LOOS	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
PSNEST	1 ≤ f ≤100 MHz	32.3 - 15 LOG(f/100)dB MIN
ACRF	1 ≤ f ≤100 MHz	23.8 - 20 LOG(f/100)dB MIN
PSACRF	1 ≤ f ≤100 MHz	20.8 - 20 LOG(f/100)dB MIN
INSERTION LOSS	1 ≤ f ≤100 MHz	1.2[1.967SqRt(f) + 0.023(f) + 0.050/SqRt(f)] dB MAX
DELAY	1 ≤ f ≤100 MHz	534 + 36/SqRt(f) ns MAX
DELAY SKEW	1 ≤ f ≤100 MHz	< 45 ns
COUPLING ATTENUATION TESTED PER IEC62153-4-9	30 ≤ f ≤100 MHz	≥ 60 dB E3* Segregation class d acc. EN 50174-2
VELOCITY OF PROPAGATION	68%	

*PER ODVA VOLUME 2 ETHERNET/IP

3.

3.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES [mm] OVERALL CABLE LENGTH TOLERANCE: ≤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	DATE	 50 High Street, West Mill, North Andover, MA 01845 USA. Phone: 1.800.341.5266 1.978.682.6936		
	DRAWN BY BZANG	09/24/2020		CATEGORY TELECOM/MODULAR	
	CHECKED BY JLABOY	09/24/2020			
	APPROVED BY GUTTADAURO	09/24/2020			
PROJECTION 	CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY	PRODUCT DESCRIPTION C5E SFTP 4PR/24 STR TPE TEL			
	COLOR VARIATIONS MAY OCCUR	SIZE A	FSCM NO. 43321	DWG. NO. TFDL5090	REV. A
		SCALE: 1:4	CAD FILE: TFDL5090.SLDDRW	SHEET 2 OF 2	