				QUABBIN P/N 5099	1 of 2	-		
	CUSTOMER APPROVAL:		DATE:	QUAD, 22 AWG, PE/TPE SHIELDED	PROFINE I CABL	E		
				REV. 04 CHECKED: 04/10/23	WIRE & CABLE			
			Created 08/29/18 DRAWN: 03/31/23					
			TAPE INSULATED CONDUCTOR					
	FOIL SHIELD BRAID BEDDING COMPOUND							
					U			
8) PACKAGING: TO BE PACKAGED AS PER QWC'S STANDARD								
	7) COLOR CODE: 1. WHITE X 2. BLL 3. YELLOW X 4. O							
) PRINT: QUABBIN DATAMAX EXTREME HIGH FLEX PROFINET TYPE B AND C CAT 5E SHIELDED P/N 5099 (UL) TYPE PLTC-ER 4C 22 AWG SF/QUAD 75C SUN RES -40C OR C(UL)US TYPE CM CE RoHS (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)							
	5) APPLICATION: PATCH CABLE FOR PROFINET TYPE B AND C AND ETHERNET/IP CAT 5e APPLICATIONS.							
CEC C(UL) TYPE CM EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)								
	4) AGENCY APPROVALS: NEC (UL) TYPE PLTC-ER NEC (UL) TYPE CM							
	3) ELECTRICAL CHARAC SEE PAGE 2	CTERISTICS:						
	TORSION TEST (F (1 LB LOAD, 360	°ENDING) °, 71 CYCLES/MIN, @ 20°C)	3 MILLION CYCLE TEST					
	(126 CYCLES/MI			X CABLE O.D., MINIMUM RADIUS 0X CABLE O.D., MINIMUM RADIU				
'	WT./M', NOM., NE JACKET IS SUNLI FLEX LIFE (PEND	GHT RESISTANT	56.2 LBS.					
	TEMPERATURE R	ATING, MAX. ATING, MIN. (STATIC)	75°C -40°C					
1	2) PHYSICAL PROPERTI		OVERALL CABLE DIAMETE	r.	(BY CALIPER)			
	JACKET:	OVER THE BRAID. THERMOPLASTIC ELASTON (PRESSURE)	MER, GREEN (CR# 70), .047" NOM. WALL THICKNESS OVERALL CABLE DIAMETER		.208" .305" (± .010")			
	SHIELDS:	AN OVERALL SHIELD OF 38 SHALL BE APPLIED OVER TO ALUMINIZED POLYESTER FO	L					
	CABLE:	(4) COLOR CODED WIRES C POLYESTER TAPE EMBEDD	.190"	5099				
	CONDUCTOR: INSULATION:	22 AWG 7/30 STRANDED TIN HIGH DENSITY POLYETHYL		(NESS	.030"	5		
ſ	1) CONSTRUCTION:				NOM. DIA.	\neg		

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3) ELE	CTRICAL CHARACTERISTICS:POE COMPLIANT TO 100 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184CABLE WILL MEET CAT 5¢ CHANNEL REQUIREMENTS TO 100 METER LENGTHMUTUAL CAPACITANCE, MAX.5.6 nF/100m AT 1 kHz @ 20°CDIELECTRIC WITHSTANDING, MIN.1500V RMSVOLTAGE RATING, MAX.300VD.C. RESISTANCE, MAX. (GRP I & GRP II)17.5 Ω/1000' @ 20°CD.C. RESISTANCE UNBALANCE, MAX.5% @ 20°C				
	COUPLING ATTENUATION TESTED PER IEC 62153-4-9	$30 \le f \le 100 \text{ MHZ}$	≥ 60 dB MIN		
	SURFACE TRANSFER IMPEDANCE	1 ≤ <i>f</i> ≤ 100 MHz	$10f m\Omega/m$		
	REEL. (FOR 100m OF CABLE)				
	IMPEDANCE, CHARACTERISTIC CAPACITANCE UNBALANCE, MAX.:	1 ≤ <i>f</i> ≤ 100 MHz	100 ± 15 Ω		
	PAIR-TO-GROUND	330 pF/100m AT 1 kH	Hz @ 20°C		
	RETURN LOSS	1 ≤ <i>f</i> < 10 MHz 10 ≤ <i>f</i> < 20 MHz 20 ≤ <i>f</i> ≤ 100 MHz	20 + 5 LOG(<i>f</i>) dB MIN 25 dB MIN 25 - 8.6 LOG(<i>f</i> /20) dB MIN		
INSERTION LOSS		1 ≤ <i>f</i> ≤ 100 MHz	$1.02[1.967\sqrt{f} + 0.023(f) + 0.050/\sqrt{f}] + 4*0.040*\sqrt{f} \text{ dB M}$	AX	
	NEXT	$1 \le f \le 100 \text{ MHz}$	35.3 - 15 LOG(ƒ/100) dB MIN		
	ACRF	$1 \le f \le 100 \text{ MHz}$	23.8 - 20 LOG(<i>f</i> /100) dB MIN		
	PROPAGATION DELAY	$1 \le f \le 100 \text{ MHz}$	534 + 36/√ <i>f</i> ns MAX		
	PROPAGATION DELAY SKEW	$1 \le f \le 100 \text{ MHz}$	≤ 20 ns		
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CABLE MEETS THE CHANNEL REQUIREMENT AT 100M AND IS SUITABLE FOR 100M PLUG TO PLUG RUN.

		Created 08/29/18 DRAWN: 03/ REV. 04 CHECKED: 04/	SGH /31/23 ZRS /10/23	UABBIN® WIRE & CABLE	
		TITLE			
CUSTOMER APPROVAL:	DATE:	QUAD, 22 AWG, PE/TPE SHIELDED PROFINET CABLE			
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