1) 00	ONSTRUCTION:									
1,000	CONDUCTOR:	22 AWG 19/.0058 STRANDEI				NOM. DIA. .0280"				
	INSULATION:			KNESS		.0200	5 U			
	PAIRS:	HIGH DENSITY POLYETHYLENE, .013" NOM. WALL THICKNESS COLOR CODED SINGLES TWISTED INTO PAIRS AND WRAPPED WITH AN OVERALL					5098			
		CLEAR POLYESTER TAPE				.113"	$\infty$			
	CABLE:	(2) TWISTED PAIRS CABLE	D TOGETHER EMBEDDED W	ITHIN A CORE OF						
		THERMOPLASTIC ELASTON				.292"				
	SHIELDS:	AN OVERALL SHIELD OF 36								
			HE CABLE CORE. A SECONE							
		ALUMINIZED POLYESTER FOIL SHIELD (FOIL IN, 100% COVERAGE) SHALL BE APPLIED								
	JACKET:	OVER THE BRAID.	1ER, GREEN (CR# 70), .046" 1			.318"				
	JACKET.	(PRESSURE)	OVERALL CABLE DIAMETE			.410"				
		(FRESSORE)	OVERALL CABLE DIAMETE	.n		(BY CALIPER)				
•										
2) PH	IYSICAL PROPERT	IES:								
,	TEMPERATURE R	RATING, MAX.	75°C							
		RATING, MIN. (STATIC)	-40°C							
	WT./M', NOM., NE					86.1 LBS.				
	FLEX LIFE (PEND									
	(126 CYCLES/M	IN, @ 20°C)	1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIU 10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RAD							
	TORSION TEST (F		TO MILLION CYCLE TEST (2	20X CABLE O.D., MI		05)				
		<sup>e</sup> , 71 CYCLES/MIN, @ 20°C)	3 MILLION CYCLE TEST							
	(1 20 20/10, 000									
3) EL	ECTRICAL CHARAG	CTERISTICS:								
,	SEE PAGE 2									
4) AG	SENCY APPROVALS									
	NEC (UL) TYPE PI									
	NEC (UL) TYPE C									
	CEC C(UL) TYPE	ETS EU DIRECTIVE 2011/65/E	II (RoHS II)							
•										
5) AP	PLICATION:									
	PATCH CABLE FC	OR PROFINET TYPE B AND C	AND CAT 5e APPLICATIONS.							
6) PR										
		AX EXTREME HIGH FLEX PRO N RES -40C OR C(UL)US TYPE								
	1 LTO-LIX 750 501									
7) CC	DLOR CODE:									
ĺ	1. WHITE X 2. BL	UE	IACKET							
	3. YELLOW X 4. C	DRANGE	JACKET							
			FOIL SHIELD		XXXXX					
8) PA	CKAGING:		BRAID		$\sim$					
	TO BE PACKAGE				1)					
	STANDARD PACK	AGING	PAIR TAPE							
				//////////////////////////////////////	((2))					
				K		::::: <i>:</i>				
			INSULATION		(3)					
			CONDUCTOR		シ)/					
	BEDDING COMPOUND									
						PS165	54			
				Created 02/06/18 DRAWN:	SGH 08/26/19					
				REV. 05 CHECKED:			<b>V</b> ⊮			
1				TITLE	06/26/19		<u> </u>			
CUE	TOMER APPROVAL:		DATE:	2 PAIR, 22 AWG	,	DED HIGH FLEX	(			
003	OWIER AFFRUVAL:		DATE.	PROFINET CABI	_E CAT 5e					
				QUABBIN P/N	5098	1 0	of 2			
							-			

This document contains proprietary and confidential information which is the property of Quabbin Wire & Cable Co., Inc. and may not be copied or disclosed to others without the express written permission of Quabbin Wire & Cable Co., Inc.

3) ELEC	TRICAL CHARACTERISTICS: POE COMPLIANT TO 100 METERS WHEN INS	TALLED PER RECOM	IMENDATIONS IN TIA TSB-184	
	CABLE WILL MEET CAT 5e CHANNEL REQUIR MUTUAL CAPACITANCE, MAX. DIELECTRIC WITHSTANDING, MIN.		TER LENGTH	
	VOLTAGE RATING, MAX. D.C. RESISTANCE, MAX. (GRP I & GRP II)			
	D.C. RESISTANCE UNBALANCE, MAX. COUPLING ATTENUATION TESTED PER IEC 62153-4-9	5% @ 20°C 30 ≤ <i>f</i> ≤ 100 MHZ	≥ 60 dB MIN	
	SURFACE TRANSFER IMPEDANCE	$1 \le f \le 100 \text{ MHz}$	10 <i>f</i> mΩ/m	
	NOTE: TESTING FOR THE FOLLOWING IS CO	NDUCTED OFF THE I	REEL. (FOR 100m OF CABLE)	
	IMPEDANCE, CHARACTERISTIC CAPACITANCE UNBALANCE, MAX.:	$1 \le f \le 100 \text{ MHz}$	100 ± 15 Ω	
	PAIR-TO-GROUND	330 pF/100m AT 1 kHz @ 20°C		
	RETURN LOSS	$1 \le f < 10 \text{ MHz}$ $10 \le f < 20 \text{ MHz}$ $20 \le f \le 100 \text{ MHz}$		
	INSERTION LOSS	1 ≤ <i>f</i> ≤ 100 MHz	1.02(1.967 $\sqrt{f}$ + 0.023( $f$ ) + 0.050/ $\sqrt{f}$ dB) MAX*	
	NEXT	1 ≤ <i>f</i> ≤ 100 MHz	35.3 - 15 LOG( <i>f</i> /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 ≤ <i>f</i> ≤ 100 MHz	≤ 20 ns	

5098

\*2% HIGHER THAN HORIZONTAL CABLE SPECIFICATION PER TIA 568-C.2. CABLE MEETS THE CHANNEL REQUIREMENT AT 100M AND IS SUITABLE FOR 100M PLUG TO PLUG RUN.

				PS1654
		Created 02/06/18 DRAWN: ( REV. 05 CHECKED: (	SGH 08/26/19 ZRS 08/26/19	ABBIN® IRE & CABLE
		TITLE		
CUSTOMER APPROVAL: D	ATE:	2 PAIR, 22 AWG, PE/TPE SHIELDED HIGH FLEX PROFINET CABLE CAT 5e		
		QUABBIN P/N	5098	2 of 2