I) CONSTRUCTION:			NOM. DIA.
	18 AWG 7/26 STRANDED TINN		.048" .123"
CABLE:	FOAMED FEP, .038" WALL THIC (2) COLOR CODED SINGLES S	.123"	
CADLE.	WRAPPED WITH AN ALUMINU		
		DS OF 28 AWG TINNED COPPER DRAIN	-
		OUTER METALIZED SURFACE.	.255"
JACKET:		R PER CHART 1), .021" NOM. WALL	
	THICKNESS		
		OVERALL CABLE DIAMETER	.297"
		(BY CALIPER ACROSS WIDEST CR	OSS-SECTION)
) PHYSICAL PROPER	TIES:		
,	E RATING, MAX.	105°C	
TEMPERATUR	E RATING, MIN.	-20°C	
WT./M', NOM.,	NET.	44.7 LBS.	
CHART 1			
QUABBIN P			
3200	BLACK		
3201	BROWN		
3202	RED		
3203	ORANGE		
3204	YELLOW		
3205	GREEN		
3206	BLUE		
3207	VIOLET		
3208	CHROME GRAY		
3200			
	WHITE		
3209 3210	WHITE STARLIGHT BEIGE		
3209	STARLIGHT BEIGE		
3209 3210	STARLIGHT BEIGE		
3209 3210 3) ELECTRICAL CHAR SEE PAGE 2	STARLIGHT BEIGE		
3209 3210 ELECTRICAL CHAR SEE PAGE 2	STARLIGHT BEIGE ACTERISTICS: LS:		
3209 3210) ELECTRICAL CHAR SEE PAGE 2) AGENCY APPROVA	STARLIGHT BEIGE ACTERISTICS: LS: E CMP		
3209 3210) ELECTRICAL CHAR SEE PAGE 2) AGENCY APPROVA NEC (UL) TYP CEC C(UL) TY	STARLIGHT BEIGE ACTERISTICS: LS: E CMP		
3209 3210) ELECTRICAL CHAR SEE PAGE 2) AGENCY APPROVA NEC (UL) TYP CEC C(UL) TY) APPLICATION:	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP	JACKET	
3209 3210 3210 3210 3210 3210 3210 SEE PAGE 2 30 AGENCY APPROVA NEC (UL) TY CEC C(UL) TY CEC C(UL) TY 30 APPLICATION: COMPLIANT V	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP VITH ANSI/TIA-568.5 DRAFT	JACKET DRAIN	
3209 3210 3210 3210 3210 3210 3210 3210 3210	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP		
3209 3210 3210) ELECTRICAL CHAR SEE PAGE 2) AGENCY APPROVA NEC (UL) TYP CEC C(UL) TY 0) APPLICATION: COMPLIANT V 1.5a SP1-1000 DISTANCE LIN	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP /ITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH		
3209 3210	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP VITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON		
3209 3210 3210 3210 3) ELECTRICAL CHAR SEE PAGE 2 4) AGENCY APPROVA NEC (UL) TYPI CEC C(UL) TY 5) APPLICATION: COMPLIANT V 1.5a SP1-1000 DISTANCE LIN PAGE 2. RoHS 5) PRINT:	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP /ITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS.	DRAIN CONDUCTOR	
3209 3210 3210 3210 3210 30 ELECTRICAL CHAR SEE PAGE 2 4) AGENCY APPROVA NEC (UL) TYPI CEC C(UL) TY 5) APPLICATION: COMPLIANT V 1.5a SP1-1000 DISTANCE LIN PAGE 2. RoHS 5) PRINT: QUABBIN DAT	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP /ITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS.	DRAIN CONDUCTOR INSULATION	
3209 3210	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP /ITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS. AMAX P/N (P/N PER CHART PE CMP 18 AWG SHIELDED	DRAIN CONDUCTOR	
3209 3210	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP VITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS. AMAX P/N (P/N PER CHART PE CMP 18 AWG SHIELDED - (LOT DESIGNATOR)	DRAIN CONDUCTOR INSULATION	
3209 3210 3) ELECTRICAL CHAR SEE PAGE 2 4) AGENCY APPROVA NEC (UL) TYP CEC C(UL) TY 5) APPLICATION: COMPLIANT V 1.5a SP1-1000 DISTANCE LIN PAGE 2. RoHS 6) PRINT: QUABBIN DAT 1) C(UL)US TY 105C RoHS	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP VITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS. AMAX P/N (P/N PER CHART PE CMP 18 AWG SHIELDED - (LOT DESIGNATOR)	DRAIN CONDUCTOR INSULATION	
3209 3210	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP /ITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS. AMAX P/N (P/N PER CHART PE CMP 18 AWG SHIELDED - (LOT DESIGNATOR) FOOTAGE)	DRAIN CONDUCTOR INSULATION	
3209 3210 3) ELECTRICAL CHAR SEE PAGE 2 4) AGENCY APPROVA NEC (UL) TYP CEC C(UL) TY 5) APPLICATION: COMPLIANT V 1.5a SP1-1000 DISTANCE LIN PAGE 2. RoHS 6) PRINT: QUABBIN DAT 1) C(UL)US TY 105C RoHS	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP /ITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS. AMAX P/N (P/N PER CHART PE CMP 18 AWG SHIELDED - (LOT DESIGNATOR) FOOTAGE)	DRAIN CONDUCTOR INSULATION	2 PS1739
3209 3210 3) ELECTRICAL CHAR SEE PAGE 2 4) AGENCY APPROVA NEC (UL) TYP CEC C(UL) TY 5) APPLICATION: COMPLIANT W 1.5a SP1-1000 DISTANCE LIN PAGE 2. RoHS 6) PRINT: QUABBIN DAT 1) C(UL)US TY 105C RoHS (SEQUENTIAL 7) COLOR CODE: 1. BLUE X 2. W	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP /ITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS. AMAX P/N (P/N PER CHART PE CMP 18 AWG SHIELDED - (LOT DESIGNATOR) FOOTAGE)	DRAIN CONDUCTOR INSULATION SHIELD	PS1739
3209 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 320 320 320 320 320 320 320 32	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP /ITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS. AMAX P/N (P/N PER CHART PE CMP 18 AWG SHIELDED - (LOT DESIGNATOR) FOOTAGE)	DRAIN CONDUCTOR INSULATION SHIELD Created 10/28/20/DRAWN: 09/01/2	PS1739
3209 3210 3) ELECTRICAL CHAR SEE PAGE 2 4) AGENCY APPROVA NEC (UL) TYP CEC C(UL) TY 5) APPLICATION: COMPLIANT V 1.5a SP1-1000 DISTANCE LIN PAGE 2. RoHS 6) PRINT: QUABBIN DAT 1) C(UL)US TY 105C RoHS (SEQUENTIAL 7) COLOR CODE: 1. BLUE X 2. V 8) PACKAGING:	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP //ITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS. AMAX P/N (P/N PER CHART PE CMP 18 AWG SHIELDED - (LOT DESIGNATOR) FOOTAGE) //HITE GED AS PER QWC'S	DRAIN CONDUCTOR INSULATION SHIELD Created 10/28/20 DRAWN: 09/01/2 REV. 02 CHECKED: 09/08/2 TITLE	PS1739
3209 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 3210 320 320 320 RECULAR APPLICATION: COMPLIANT V 1.5a SP1-1000 DISTANCE LIN PAGE 2. RoHS 30 30 31 320 42 42 42 42 42 42 42 42 42 42	STARLIGHT BEIGE ACTERISTICS: LS: E CMP PE CMP //ITH ANSI/TIA-568.5 DRAFT CABLING STANDARDS WITH IITATIONS SPECIFIED ON COMPLIANT MATERIALS. AMAX P/N (P/N PER CHART PE CMP 18 AWG SHIELDED - (LOT DESIGNATOR) FOOTAGE) //HITE GED AS PER QWC'S	DRAIN CONDUCTOR INSULATION SHIELD Created 10/28/20 DRAWN: 09/01/2 REV. 02 CHECKED: 09/08/2 TITLE	PS1739

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QWC0141

CABLE IS DESIGNED TO BE COMPLIANT TO ANSI/TIA-568.5 DRAFT 1.5a SP1-1000 CHANNEL REQUIREMENTS AT THE LENGTHS LISTED BELOW FOR DIFFERENT POWER OVER DATA LINE (PoDL) APPLICATIONS:

PoDL Class	Maximum Length (m)
No Power	1000
10	1000
11	451
12	118
13	1000
14	451
15	118

CAPACITANCE, MUTUAL, NOM. DIELECTRIC WITHSTANDING, MIN. VOLTAGE RATING, MAX. D.C. RESISTANCE, MAX. 13 PF/FT. AT 1 MHz 1500V RMS 300V 2.33 Ω

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

IMPEDANCE, NOM.	100 Ω	
RETURN LOSS	$0.1 \le f < 10 \text{ MHz}$ $10 \le f \le 20 \text{ MHz}$	20 + 5 LOG(<i>f</i>) dB MIN 25 dB MIN
INSERTION LOSS	0.1 ≤ <i>f</i> ≤ 20 MHz	$1.23\sqrt{f} + 0.01(f) + 0.2/\sqrt{f} \text{ dB MAX}$
COUPLING ATTENUATION	0.1 ≤ <i>f</i> ≤ 20 MHz	55 dB MIN
PSANEXT	0.1 ≤ <i>f</i> ≤ 20 MHz	37.5 - 17 LOG(<i>f</i> /20) dB MIN, 67 dB MIN
PSAFEXT	0.1 ≤ <i>f</i> ≤ 20 MHz	38 - 18 LOG(<i>f</i> /20) dB MIN, 67 dB MIN
TCL	0.1 ≤ <i>f</i> < 20 MHz	50 - 15 LOG(<i>f</i>) dB MIN, 50 dB MIN
ELTCTL	0.1 ≤ <i>f</i> < 20 MHz	40 - 20 LOG(<i>f</i>) dB MIN, 40 dB MIN

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

				PS	S1739	
		Created 10/28/20 DR REV. 02 CH	BMD 2AWN: 09/01/22 IECKED: 09/08/22			
CUSTOMER APPROVAL:	DATE:					
		DRAWING#	QWC0141		2 of 2	
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