

1) CONSTRUCTION:		NOM. DIA.
CONDUCTOR:	24 AWG 7/32 STRANDED TINNED COPPER	.024"
INSULATION:	HIGH DENSITY POLYETHYLENE, .008" NOM. WALL THICKNESS	.039"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.078"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE	.168"
JACKET:	POLYVINYLCHLORIDE, BLACK, .033" NOM. WALL THICKNESS	
	OVERALL CABLE DIAMETER	.234" (BY PI TAPE)

2) PHYSICAL PROPERTIES:	
TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	26.9 LBS.
JACKET IS UV RESISTANT	
JACKET IS OIL RESISTANT	PER UL 2556

3) ELECTRICAL CHARACTERISTICS:  
SEE PAGE 2

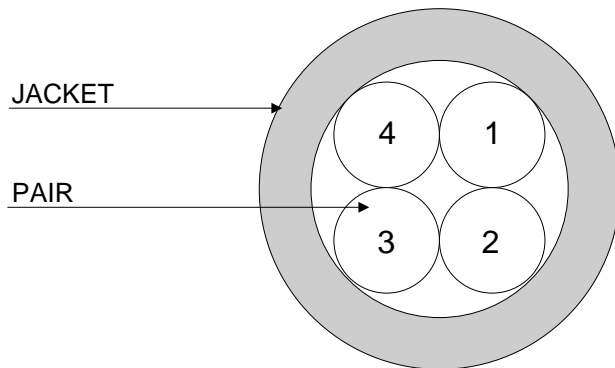
4) AGENCY APPROVALS:  
 NEC (UL) TYPE CMX OUTDOOR - CMR  
 CEC C(UL) TYPE CMX OUTDOOR - CMR  
 MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

5) APPLICATION:  
 PATCH CABLE FOR 568.2-D CATEGORY 5e APPLICATIONS. CABLE MEETS UL 1666 AND HAS BEEN FOUND TO MEET THE STANDARD CRITERIA FOR FT4/IEEE 1202, PER UL 444.

6) PRINT: (WHITE INK)  
 QUABBIN DATAMAX EXTREME TOUGH CAT 5e 350 MHZ U/UTP PATCH CABLE P/N 5944 C(UL)US CMX OUTDOOR - CMR 24 AWG 75C SUN RES -- CAT 5e TIA -568.2-D -- CE RoHS -- **(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)**

7) COLOR CODE:  
 1. WHITE/BLUE X BLUE  
 2. WHITE/ORANGE X ORANGE  
 3. WHITE/GREEN X GREEN  
 4. WHITE/BROWN X BROWN

8) PACKAGING:  
 TO BE PACKAGED AS PER QWC'S  
 STANDARD PACKAGING



Created 12/17/20	DRAWN: BMD 12/17/20	
REV. 01	CHECKED: ZRS 12/17/20	
TITLE DATAMAX EXTREME TOUGH PATCH CABLE -- 4 PR 24 AWG -- C(UL)US CMX OUTDOOR - CMR		
DRAWING#	5944	1 of 2


CUSTOMER APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

## 3) ELECTRICAL CHARACTERISTICS:

CAPACITANCE, MUTUAL, MAX.	13.5 PF/FT. AT 1 MHz @ 20°C
DIELECTRIC WITHSTANDING, MIN.	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, MAX.	26.5 $\Omega$ /1,000' (8.69 $\Omega$ /100m) @ 20°C
D.C. RESISTANCE UNBALANCE, MAX.	5% @ 20°C

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

IMPEDANCE,	100 $\pm$ 15 $\Omega$ 1 - 350 MHz	
IMPEDANCE, SMOOTHED	100 $\pm$ 10 $\Omega$ TYPICAL	5 - 350 MHz
RETURN LOSS	1 $\leq f <$ 10 MHz	20 + 5 LOG( $f$ ) dB MIN
	10 $\leq f <$ 20 MHz	25 dB MIN
	20 $\leq f \leq$ 350 MHz	25 - 8.6 LOG( $f/20$ ) dB MIN
INSERTION LOSS	1 $\leq f \leq$ 350 MHz	1.2[1.967 $\sqrt{f}$ + 0.023( $f$ ) + 0.050/ $\sqrt{f}$ ] dB MAX
NEXT	1 $\leq f \leq$ 350 MHz	35.3 - 15 LOG( $f/100$ ) dB MIN
PSNEXT	1 $\leq f \leq$ 350 MHz	32.3 - 15 LOG( $f/100$ ) dB MIN
ACRF	1 $\leq f \leq$ 350 MHz	23.8 - 20 LOG( $f/100$ ) dB MIN
PSACRF	1 $\leq f \leq$ 350 MHz	20.8 - 20 LOG( $f/100$ ) dB MIN
PROPAGATION DELAY	1 $\leq f \leq$ 350 MHz	534 + 36/ $\sqrt{f}$ ns MAX
PROPAGATION DELAY SKEW	1 $\leq f \leq$ 350 MHz	<25ns

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DRAWING#	5944	2 of 2

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