

1) CONSTRUCTION:

CONDUCTOR:	24 AWG 7/32 STRANDED TINNED COPPER	NOM. DIA.	.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" ± .010" (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

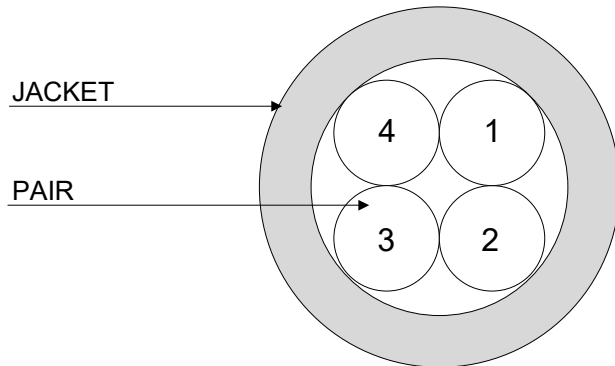
4) AGENCY APPROVALS:
 NEC (UL) TYPE CMX OUTDOOR - CMR
 CEC C(UL) TYPE CMX OUTDOOR - CMR
 EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

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: SGH 08/19/22	
REV. 02	CHECKED: ZRS 08/19/22	
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 Ω /1,000' (8.69 Ω /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 Ω 1 - 350 MHz	
IMPEDANCE, SMOOTHED	100 \pm 10 Ω 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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		2 of 2

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