

1) CONSTRUCTION:		NOM. DIA.
CONDUCTOR:	24 AWG SOLID BARE COPPER	.0215"
INSULATION:	HIGH DENSITY POLYETHYLENE, .008" NOM. WALL THICKNESS	.038"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.076"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE	.164"
JACKET:	POLYVINYLCHLORIDE, BLACK, .033" NOM. WALL THICKNESS	
	OVERALL CABLE DIAMETER	.230" (BY PI TAPE)

2) PHYSICAL PROPERTIES:	
TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	25.4 LBS.
JACKET IS UV RESISTANT	
JACKET IS OIL RESISTANT	PER UL 2556

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

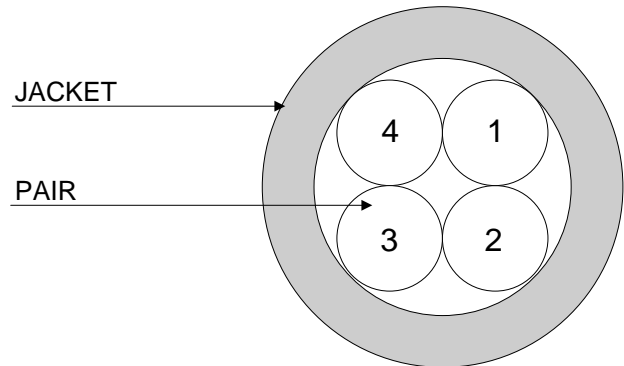
4) AGENCY APPROVALS:
 NEC (UL) TYPE CMX OUTDOOR - CMR
 CEC C(UL) TYPE CMX OUTDOOR - CMR
 MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

5) APPLICATION:
 HORIZONTAL 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 200 MHZ U/UTP HORIZONTAL CABLE P/N 5943 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 HORIZONTAL CABLE -- 4 PR 24 AWG -- C(UL)US CMX OUTDOOR - CMR		
DRAWING#	5943	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.	26.2 Ω /1,000' (8.59 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 - 200 MHz						
IMPEDANCE, SMOOTHED	100 \pm 10 Ω TYPICAL 5 - 200 MHz						
RETURN LOSS	<table> <tr> <td>1 $\leq f <$ 10 MHz</td> <td>20 + 5 LOG(f) dB MIN</td> </tr> <tr> <td>10 $\leq f <$ 20 MHz</td> <td>25 dB MIN</td> </tr> <tr> <td>20 $\leq f \leq$ 200 MHz</td> <td>25 - 7 LOG(f/20) dB MIN</td> </tr> </table>	1 $\leq f <$ 10 MHz	20 + 5 LOG(f) dB MIN	10 $\leq f <$ 20 MHz	25 dB MIN	20 $\leq f \leq$ 200 MHz	25 - 7 LOG(f /20) dB MIN
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10 $\leq f <$ 20 MHz	25 dB MIN						
20 $\leq f \leq$ 200 MHz	25 - 7 LOG(f /20) dB MIN						
INSERTION LOSS	1 $\leq f \leq$ 200 MHz 1.967 \sqrt{f} + 0.023(f) + 0.050/ \sqrt{f} dB MAX						
NEXT	1 $\leq f \leq$ 200 MHz 35.3 - 15 LOG(f /100) dB MIN						
PSNEXT	1 $\leq f \leq$ 200 MHz 32.3 - 15 LOG(f /100) dB MIN						
ACRF	1 $\leq f \leq$ 200 MHz 23.8 - 20 LOG(f /100) dB MIN						
PSACRF	1 $\leq f \leq$ 200 MHz 20.8 - 20 LOG(f /100) dB MIN						
PROPAGATION DELAY	1 $\leq f \leq$ 200 MHz 534 + 36/ \sqrt{f} ns MAX						
PROPAGATION DELAY SKEW	1 $\leq f \leq$ 200 MHz <25ns						

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