

1) CONSTRUCTION:		NOM. DIA.
CONDUCTOR:	24 AWG SOLID BARE COPPER	.0215"
INSULATION:	HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS	.044" MAX.
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.087"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH AN OVERALL POLYESTER TAPE TO FORM A CABLE CORE	.208"
SHIELD:	AN OVERALL POLYESTER FOIL SHIELD (FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE AND SHALL CONTAIN A 24 AWG SOLID TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE.	.218"
JACKET:	POLYVINYLCHLORIDE, BLACK, .035" NOM. WALL THICKNESS	.288"
	OVERALL CABLE DIAMETER	(BY PI TAPE)

2) PHYSICAL PROPERTIES:	
TEMPERATURE RATING, MAX.	75° C & 80°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	36.6 LBS.
JACKET IS UV RESISTANT	
JACKET IS OIL RESISTANT	PER UL 2556

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

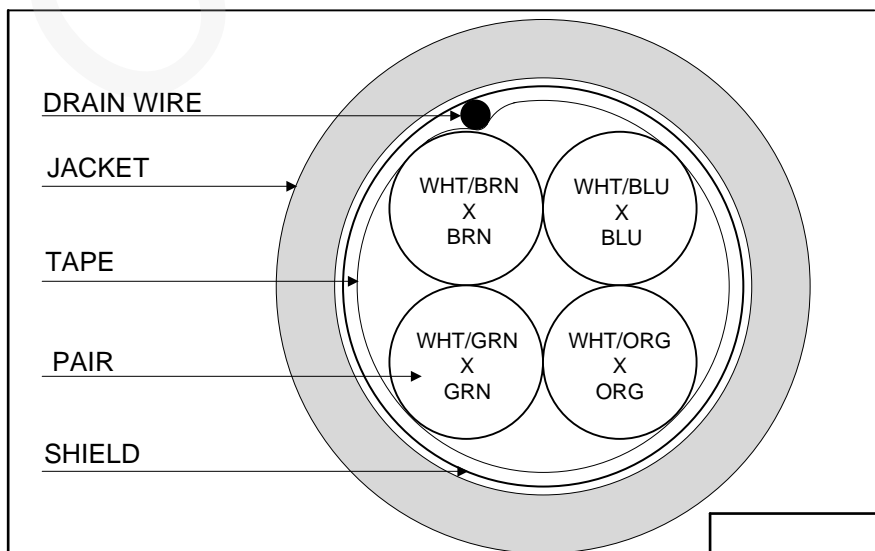
- 4) AGENCY APPROVALS:
 UL AWM STYLE 2463
 NEC (UL) TYPE CMX OUTDOOR - CMR
 CEC C(UL) TYPE CMX OUTDOOR - CMR
 MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

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 F/UTP HORIZONTAL CABLE P/N 5940 C(UL)US CMX OUTDOOR - CMR 24 AWG 75C SUN RES OR AWM 2463 80C 600V -- CAT 5e TIA-568.2-D -- CE RoHS -- **(LOT DESIGNATOR)**
(SEQUENTIAL FOOTAGE)

- 7) COLOR CODE:
 1. WHT/BLU X BLU
 2. WHT/ORG X ORG
 3. WHT/GRN X GRN
 4. WHT/BRN X BRN

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



Created 12/01/20	DRAWN: BMD 01/11/21	
REV. 04	CHECKED: ZRS 01/12/21	
TITLE DATAMAX EXTREME TOUGH HORIZONTAL CABLE -- 4PR 24 AWG -- STYLE 2463, TYPE C(UL)US CMX OUTDOOR - CMR		
QUABBIN P/N	5940	1 of 2

CUSTOMER APPROVAL: _____ DATE: _____


3) ELECTRICAL CHARACTERISTICS:

CAPACITANCE, MUTUAL, MAX.	15 PF/FT. AT 1 MHz @ 20°C
DIELECTRIC WITHSTANDING, MIN.	2000V RMS
VOLTAGE RATING, MAX.	600V
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 ± 15 Ω 1 - 200 MHz	
IMPEDANCE, SMOOTHED	100 ± 10 Ω TYPICAL	5 - 200 MHz
RETURN LOSS	1 ≤ f < 10 MHz	20 + 6 LOG(f) dB MIN*
	10 ≤ f < 20 MHz	26 dB MIN*
	20 ≤ f ≤ 200 MHz	26 - 5 LOG(f/20) dB MIN*
INSERTION LOSS	1 ≤ f ≤ 200 MHz	1.967 √f + 0.023(f) + 0.050/√f dB MAX
NEXT	1 ≤ f ≤ 200 MHz	35.3 - 15 LOG(f/100) dB MIN
PSNEXT	1 ≤ f ≤ 200 MHz	32.3 - 15 LOG(f/100) dB MIN
ACRF	1 ≤ f ≤ 200 MHz	23.8 - 20 LOG(f/100) dB MIN
PSACRF	1 ≤ f ≤ 200 MHz	20.8 - 20 LOG(f/100) dB MIN
PROPAGATION DELAY	1 ≤ f ≤ 200 MHz	534 + 36/√f ns MAX
PROPAGATION DELAY SKEW	1 ≤ f ≤ 200 MHz	<25ns

*PER ODVA VOLUME 2 ETHERNET/IP

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QUABBIN P/N	5940	2 of 2

CUSTOMER APPROVAL:

DATE: