

1) CONSTRUCTION:

CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.	.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS		.037"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.074"
CABLE:	(2) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A FOAM POLYOLEFIN TAPE (100% COVERAGE) TO FORM A CABLE CORE.		.120"
SHIELDS:	AN OVERALL SHIELD OF 38 AWG TINNED COPPER BRAID (75% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE CABLE CORE. A SECOND SHIELD OF ALUMINIZED POLYESTER FOIL (FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE BRAID.		.139"
JACKET:	POLYURETHANE, (COLOR, PER CHART 1), .043" NOM. WALL THICKNESS (PRESSURE)	OVERALL CABLE DIAMETER	.225" ± .010" BY PI TAPE

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C (MANUFACTURER'S RECOMMENDED)
WT./M', NOM., NET.	30.4 LBS.
FLEX LIFE (PENDING)	1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS) 10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)

CHART 1:

QUABBIN P/N	JACKET COLOR
5055	BLACK
5056	BLUE
5057	TEAL

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

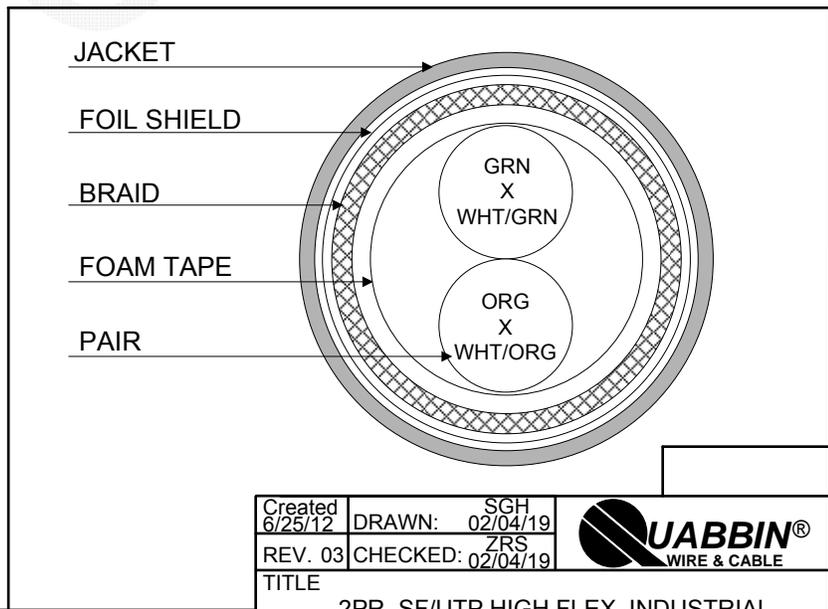
4) AGENCY APPROVALS:
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

5) APPLICATION:

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD CAT 5e SF/UTP P/N (**P/N PER CHART 1**) -- CE RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

7) COLOR CODE:
1. GREEN X WHITE/GREEN
2. ORANGE X WHITE/ORANGE

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



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REV. 03	CHECKED: 02/04/19	
TITLE		
2PR. SF/UTP HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD -- CAT 5e		
DRAWING #	QWC0037	1 of 2

CUSTOMER APPROVAL:

DATE:

3) ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)

CAPACITANCE, MUTUAL	13.5 PF/FT. AT 1 MHz
DIELECTRIC WITHSTANDING, MIN.	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, MAX.	13.98 Ω (42.6 Ω/1,000')
IMPEDANCE	100 ± 15 Ω 1 - 100 MHz
IMPEDANCE, SMOOTHED	100 ± 10 Ω TYPICAL 5 - 100 MHz

RETURN LOSS	1 ≤ f < 10 MHz	20 + 6 LOG(f) dB MIN
	10 ≤ f < 20 MHz	25 dB MIN
	20 ≤ f ≤ 100 MHz	25 - 5 LOG(f/20) dB MIN
NEXT	1 ≤ f ≤ 100 MHz	35.3 - 15 LOG (f/100) dB MIN
ACRF	1 ≤ f ≤ 100 MHz	23.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	1 ≤ f ≤ 100 MHz	1.5[1.967√(f) + 0.023(f) + 0.050/√(f)] dB MAX
DELAY	1 ≤ f ≤ 100 MHz	534 + 36/√(f) ns MAX
DELAY SKEW	1 ≤ f ≤ 100 MHz	<25 ns
TCL	1 ≤ f ≤ 100 MHz	30 - 10 LOG(f) dB MIN, 40 dB MAX
ELTCTL	1 ≤ f ≤ 30 MHz	35 - 20 LOG(f) dB MIN
COUPLING ATTENUATION PER IEC 62153-4-9	30 ≤ f ≤ 100 MHz	60 dB MINIMUM
VELOCITY OF PROPAGATION	68%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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TITLE 2PR. SF/UTP HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD -- CAT 5e		
DRAWING #	QWC0037	2 of 2

CUSTOMER APPROVAL:

DATE: