MV Type #: 8 & MI Type #: F

1) CONSTRUCTION: NOM.

	DIA.
CONDUCTOR: 22 AWG 19/.0058 STRANDED TINNED COPPER	.0280"
INSULATION: HIGH DENSITY POLYETHYLENE, .014" NOM. WALL THICKNESS	.057"
PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS	.092"
CABLE: 4 TWISTED PAIRS TWISTED TOGETHER WITH A WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE.	.250"
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.	.272"
JACKET: THERMOPLASTIC ELASTOMER, COLOR TEAL, .041" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER	.354" ± .010" (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C & 80°C (JACKET 105°c, 75°C OIL)
TEMPERATURE RATING, MIN.	-40°C (MANUFACTURER'S RECOMMENDED)
WT./M', NOM., NET.	59.7 LBS.

JACKET IS SUNLIGHT RESISTANT
JACKET IS WELD SPATTER RESISTANT
JACKET IS CUTTING/MACHINING OIL RESISTANT (6 MONTHS @ 20°C)

TENSILE STRENGTH RETENTION, NOM.	80%
ELONGATION RETENTION, NOM.	100%
FLEX LIFE (PENDING) (126 CYCLES/MIN, @ 20°C)	
TORSION TEST (PENDING) (1 LB LOAD, 360°, 71 CYCLES/MIN, @ 20°C)	3 MILLION CYCLE TEST

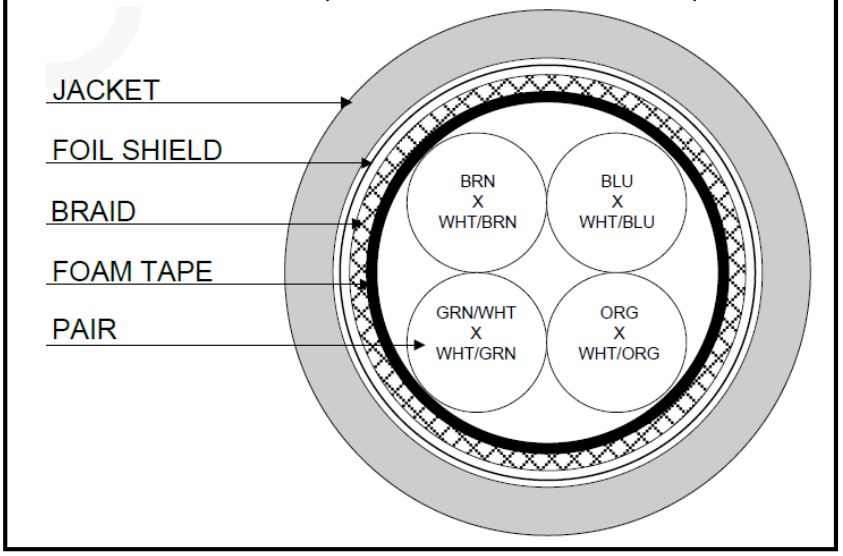
MINIMUM BEND RADIUS: 10X O.D.
1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS)
10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)

3) ELECTRICAL CHARACTERISTICS: SEE PAGE 2

4) AGENCY APPROVALS:
UL AWM STYLE 2463 (80C 600V)
NEC (UL) TYPE PLTC & ITC
EU CE MARKS: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

5) APPLICATION:
RUGGED PATCH CABLE CAT 5e

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



COMPONENTS EXPRESS, INC.
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6) ELECTRICAL CHARACTERISTICS:

POE COMPLIANT TO 100 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184
CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 100 METER LENGTH

CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz
DIELECTRIC WITHSTANDING, MIN.	2000V RMS
VOLTAGE RATING, MAX.	600V
D.C. RESISTANCE, MAX.	15.9 Ω/1,000' @ 20°C

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

IMPEDANCE, NOM.	100 ± 15 Ω 1 - 100 MHz 100 ± 20 Ω 100 - 500 MHz	
RETURN LOSS	1 ≤ ƒ < 10 MHz	20 + 6 LOG(ƒ) dB MIN*
	10 ≤ ƒ < 20 MHz	26 dB MIN*
	20 ≤ ƒ < 100 MHz	26 - 5 LOG(ƒ/20) dB MIN*
PS NEXT	1 ≤ ƒ ≤ 100 MHz	32.3 - 15 LOG(ƒ/100) dB MIN
NEXT	1 ≤ ƒ ≤ 100 MHz	35.3 - 15 LOG(ƒ/100) dB MIN
PSACRF	1 ≤ ƒ ≤ 100 MHz	20.8 - 20 LOG(ƒ/100) dB MIN
ACRF	1 ≤ ƒ ≤ 100 MHz	23.8 - 20 LOG(ƒ/100) dB MIN
INSERTION LOSS	1 ≤ ƒ ≤ 100 MHz	1.02[1.967√(ƒ) + 0.023(ƒ) + 0.050/√(ƒ)] + 4*0.040√ƒ dB MAX
DELAY	1 ≤ ƒ ≤ 100 MHz	534 + 36/√(ƒ) ns MAX
DELAY SKEW	1 ≤ ƒ ≤ 100 MHz	
(ORG X WHT/ORG, GRN/WHT X WHT/GRN PAIRS)		≤ 20 ns Per IEC 61156-5
(BLU X WHT/BLU, BRN/WHT X WHT/BRN PAIRS)		< 45 ns
COUPLING ATTENUATION	30 ≤ ƒ ≤ 250 MHz	≤ 60 dB) E3*
VELOCITY OF PROPAGATION	69%	

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