

MV Type #: 6 & MI Type #: 6

- 1) CONSTRUCTION:
- | | | | |
|-------------|---|------------------------|--------------------------------------|
| CONDUCTOR: | 26 AWG 7/34 STRANDED TINNED COPPER | NOM. DIA. | .019" |
| INSULATION: | HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS | | .036" |
| PAIRS: | COLOR CODED SINGLES TWISTED INTO PAIRS | | .072" |
| CABLE: | (4) TWISTED PAIRS TWISTED TOGETHER WITH A CENTRAL SPLINE AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE. | | .176" |
| SHIELDS: | AN OVERALL SHIELD OF 38 AWG TINNED COPPER BRAID (80% MINIMUM COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE. AN ALUMINIZED POLYESTER FOIL SHIELD (FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE BRAID SHIELD. | | .195" |
| JACKET: | THERMOPLASTIC ELASTOMER, TEAL, .040" NOM. WALL THICKNESS | OVERALL CABLE DIAMETER | .275" NOM. (± .010")
(BY PI TAPE) |
- 2) PHYSICAL PROPERTIES:
- | | |
|---|--|
| TEMPERATURE RATING, MAX. | 75°C |
| TEMPERATURE RATING, MIN. | -20°C |
| WT./M', NOM., NET. | 41.5 LBS. |
| JACKET IS WELD SPATTER RESISTANT | |
| JACKET IS SUNLIGHT RESISTANT | |
| FLEX LIFE (PENDING) | 1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS) |
| (126 CYCLES/MIN) | 10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS) |
| TORSION TEST (PENDING) | 3 MILLION CYCLE TEST |
| (1 LB LOAD, 360°, 71 CYCLES/MIN) | |
| JACKET CUTTING/MACHINING OIL RESISTANCE | |
| (6 MONTHS @ 20°C) | |
| TENSILE STRENGTH RETENTION, NOM. | 80% |
| ELONGATION RETENTION, NOM. | 100% |
- 3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2
- 4) AGENCY APPROVALS:
NEC (UL) TYPE CMX OUTDOOR - CM
CEC C(UL) TYPE CMX OUTDOOR - CM
- 5) APPLICATION:
SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568-C.2 CATEGORY 6a APPLICATIONS.
RoHS COMPLIANT MATERIALS.

COLOR CODE:

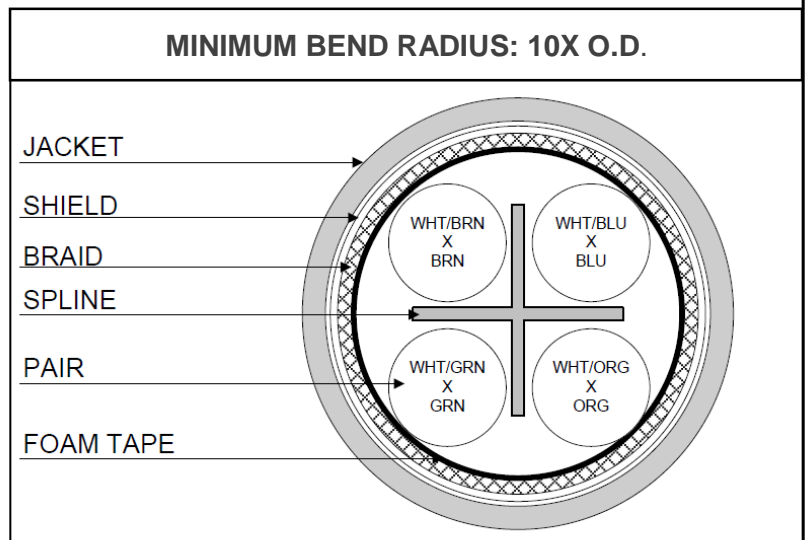
1. BLUE X WHITE/BLUE
2. ORANGE X WHITE/ORANGE
3. GREEN X WHITE/GREEN
4. BROWN X WHITE/BROWN



COMPONENTS EXPRESS, INC.
10330 Argonne Woods Drive, Ste100
Woodridge, IL 60517

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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.	14.0 Ω	
IMPEDANCE, NOM.	100 \pm 15 Ω 1 - 100 MHz 100 \pm 20 Ω 100 - 500 MHz	
RETURN LOSS	$1 \leq f < 10$ MHz 20 + 6 LOG(f) dB MIN* $10 \leq f < 20$ MHz 26 dB MIN* $20 \leq f \leq 100$ MHz 26 - 5 LOG($f/20$) dB MIN* $100 < f \leq 250$ MHz 25 - 8.6 LOG($f/20$) dB MIN	
PS NEXT	1 - 500 MHz	42.3 - 15 LOG (F/100) dB MIN
NEXT	1 - 500 MHz	44.3 - 15 LOG (F/100) dB MIN
PS ACRF	1 - 500 MHz	24.8 - 20 LOG(F/100) dB MIN
ACRF	1 - 500 MHz	27.8 - 20 LOG(F/100) dB MIN
ATTENUATION	1 - 500 MHz	1.5[1.82 SQRT(F) + .0091(F) + .25/SQRT(F)] dB MAX
DELAY	1 - 500 MHz	534 + 36/SQRT(F)
DELAY SKEW	1 - 500 MHz	<45 ns
PS ANEXT LOSS (6 AROUND 1)	1 - 500 MHz	62.5 - 15 LOG (F/100) dB 67 dB
		50 - 500 MHz 1 - 50 MHz
PS AFEXT (6 AROUND 1)	1 - 500 MHz	38.2 - 20 LOG(F/100) dB
VELOCITY OF PROPAGATION	68%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.



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