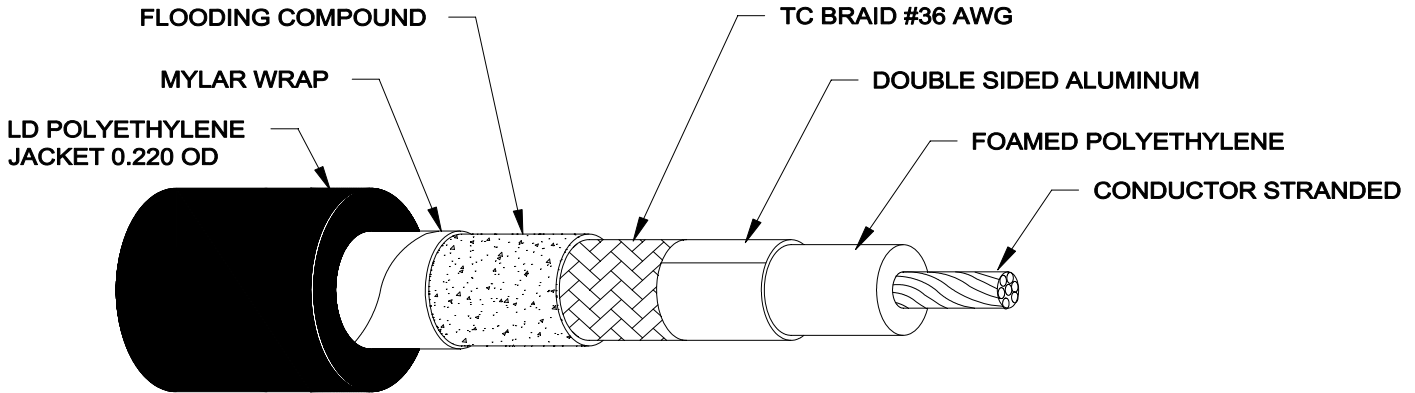


MicroTrack MTC 400 Cable with Lead-In Cable Assembly Characteristics

MicroTrack Lead-in Coax Characteristics



CENTER CONDUCTOR

WIRE SIZE & TYPE: STRANDED TINNED COPPER, 7-28 AWG (20 AWG EQUIVALENT)
 NOM. WIRE DIAMETER: 0.038

CORE

INSULATION TYPE: NATURAL (FOGGY WHITE) FOAMED POLYETHYLENE, CROSS-LINKED
 DIELECTRIC CONSTANT: (X) = 1.70 ± 1%
 NOM. INS THICKNESS: 0.038
 CORE DIAMETER: 0.114
 TOLERANCE: ±0.004

SHIELDS

SHIELD I:	CIGARETTE WRAP 0.003" ALUMINUM/POLYESTER (100% COVERAGE, 25% MIN OVERLAP)	
SHIELD II:	BRAID	ENDS: 7
MATERIAL:	TINNED COPPER	CARRIERS: 16
REQUIRED COVERAGE:	85% MINIMUM	ANGLE: 30.21
ACTUAL COVERAGE:	94.96%	
AWG:	#36 0.005" DIA	PICS/INCH: 11.15
DIAMETER OVER SHIELD:	0.146	BRAIDER: RAPID 16 CARRIERS
		WEAVE: 2 OVER, 2 UNDER, TIGHT BRAID

WATER BARRIER

MATERIAL TYPE: APPLY OPPANOL TYPE B POLYISOBUTYLENE (11 SFN OR 12 SFN) FLOODING COMPOUND TO COMPLETELY COVER BRAID AT THE RATE OF APPROXIMATELY 1.5 POUNDS/1000 FEET.

MYLAR WRAP

0.625 INCH WIDE x 0.001 INCH THICK, SPIRAL WRAPPED, 100% OVERLAP.

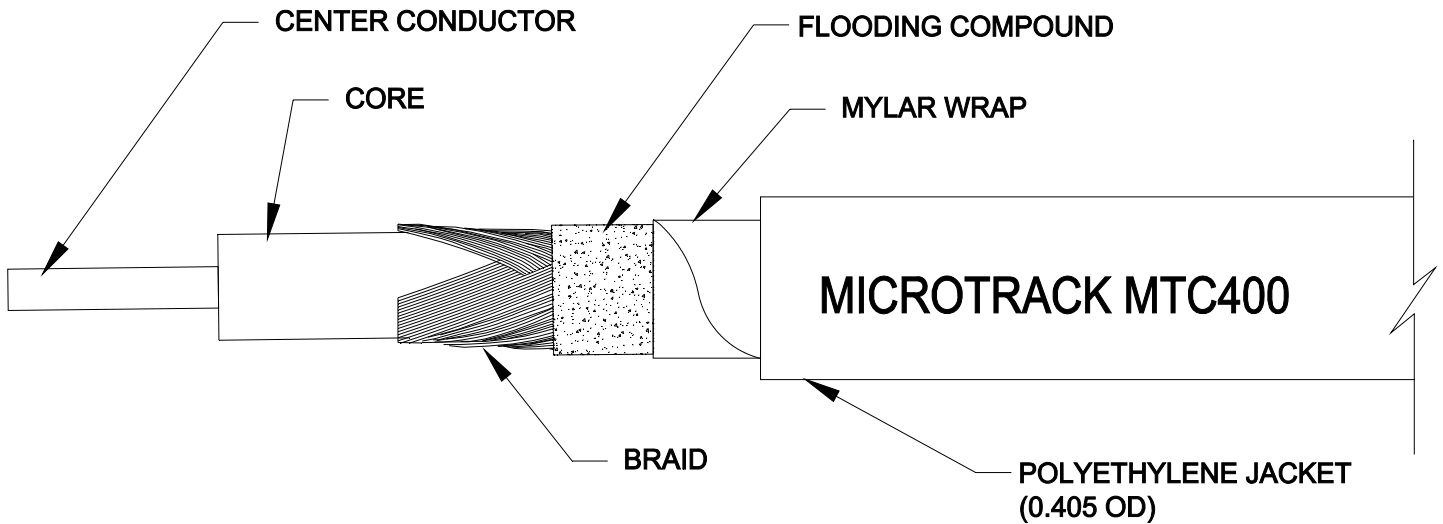
JACKET

MATERIAL TYPE: BLACK LOW DENSITY POLYETHYLENE, CROSS-LINKED
 NOM. JKT THICKNESS: 0.035
 CABLE DIAMETER: 0.220
 TOLERANCE: ±0.010

ELECTRICAL CHARACTERISTICS (REFERENCE)

IMPEDANCE: 51 ± 2.0 OHM
 VELOCITY: 77% ± 1%

MicroTrack Leaky Coax Model MTC400 Characteristics



CABLE SPECIFICATIONS:

CENTER CONDUCTOR — — — — 0.0907 INCHES (11 AWG - TINNED COPPER SOLID)

CORE DIAMETER — — — — 0.285 ± 0.006 INCHES

CORE TYPE — — — — FOAMED POLYETHYLENE, CROSS-LINKED DIELECTRIC CONSTANT = 1.95 ± 1%

BRAID — — — — STRAND DIAMETER 0.0080 INCHES (32 AWG TINNED COPPER)
 CARRIERS 6 x 8 (USE ADJACENT CARRIERS)
 ENDS 8
 PITCH 6.50 PICKS PER INCH
 WEAVE ANGLE 27.5 DEGREES
 OPTICAL COVERAGE 80%
 WEAVE 2 OVER, 2 UNDER, TIGHT BRAID

WATER BARRIER — — — — APPLY OPPANOL TYPE B POLYISOBUTYLENE (11 SFN OR 12 SFN) FLOODING COMPOUND TO COMPLETELY COVER BRAID AT THE RATE OF APPROXIMATELY 3.0 POUNDS/1000 FEET.

MYLAR WRAP — — — — 1.5 INCH WIDE x 0.0010 INCH THICK, SPIRAL WRAPPED, 100% OVERLAP.

JACKET — — — — LOW DENSITY POLYETHYLENE, CROSS-LINKED, RED (PMS-186C) WITH UV STABILIZER, 0.405" O.D.

TEMPERATURE RANGE — — — — -40°C TO +70°C.

MINIMUM BENDING RADUIS — — — — 5 INCHES

WEIGHT PER FOOT — — — — 0.122 LBS (0.055 KILOGRAMS)

CABLE ELECTRICAL PROPERTIES (REFERENCE)

IMPEDANCE — — — — — 51 ± 2.0 OHM

VELOCITY OF PROPAGATION — — — — — 72% ± 1%

DC RESISTANCE
 CENTER CONDUCTOR — — — — — 1.25 OHMS/1000', 0.84 OHMS/205m
 BRAID — — — — — 1.41 OHMS/1000', 0.95 OHMS/205m

ATTENUATION AT 205 METER — — — — — 6.7 dB AT 18 MHz
 8.9 dB AT 25 MHz