

**CONDUCTOR COLORS:**  
 18AWG PAIRS  
 PAIR 1: BLACK, WHITE  
 PAIR 2: BROWN, BLUE

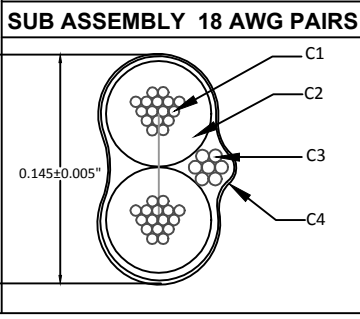
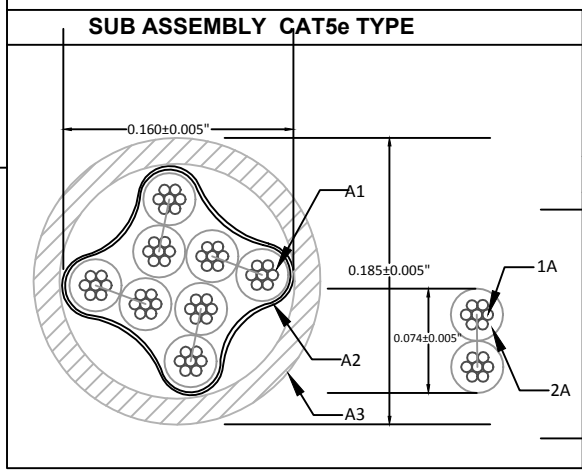
CAT5e TYPE  
 PAIR 1: BLUE, WHITE/BLUE  
 PAIR 2: ORANGE, WHITE/ORANGE  
 PAIR 3: GREEN, WHITE/GREEN  
 PAIR 4: BROWN, WHITE/BROWN  
 BAND MARK STRIPES

ITEM	SPECIFICATIONS
A	CAT5e TYPE SUB ASSEMBLY
B	POLY FILLER AS NEEDED
C	TWISTED PAIR SUB ASSEMBLY
D	20 GAUGE 7x0.0121TC DRAIN
E	ALUMINUM FOIL SHIELD; FOIL OUT 25% MIN. OVERLAP 100% COVERAGE
F	STRENGTH MEMBER 200LB TEST WHITE BRAIDED LINE
G	TISSUE PAPER SEPARATOR
H	50 MIL PRESSURED TPU JACKET 80C 300V 40 MILS MIN. BLACK POLYURETHANE JACKET NO AGENCY APPROVALS
<b>SUB ASSEMBLY CAT5e TYPE</b>	
A1	TWISTED PAIR
A2	OPAQUE MYLAR WRAP 20% MIN. OVERLAP 100% COVERAGE
A3	10 MIL TUBED TPU COVERING 80C 300V 7 MIL MIN. BLACK POLYURETHANE COVERING
1A	24 GAUGE 7x0.0076TC CONCENTRIC
2A	6 MIL POLYPROPYLENE INSULATION 80C 300V 5 MIL MIN POLYPROPYLENE INSULATION O.D - 0.037±0.003"
<b>SUB ASSEMBLY 18 AWG PAIRS</b>	
C1	18 AWG 16x30T BUNCHED
C2	9 MIL PVC INSULATION 80C 300V 7 MIL MIN. PVC INSULATION O.D - 0.070±0.002"
C3	20 GAUGE 7x0.0121TC DRAIN
C4	FFE ALUMINUM FOIL SHIELD; FOIL IN 25% MIN. OVERLAP 100% COVERAGE

**ELECTRICAL REQUIREMENTS:**  
 CAT5e TYPE  
 IMPEDANCE : 100±15% OHMS  
 CAPACITANCE: 15.5 pF NOMINAL @ 1MHZ  
 INSERTION LOSS WILL NOT MEET TIA Cat5e SPECIFICATION AT 100 METRES DUE TO STRANDED COPPER

**MECHANICAL REQUIREMENTS:**  
 CAT5e TYPE: VARIED LAY LENGTHS ON PAIRS TO MINIMIZE CROSSTALK

CORE DIMENSION FOR INTERNAL USE ONLY



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DRAWING SPECIFICATIONS UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IMPERIAL. ALL CONNECTOR VIEWS ARE SOLDER SIDE.

CABLE ASSEMBLY TOLERANCES:  
 1 - 15' +/- 1"  
 16 - 50' +/- 3"  
 51 - 100' +/- 6"  
 OVER 100' +/- 0.5%

WIRING AND JKT PREP TOLERANCES:  
 WIRE STRIP +1/16" - 0"  
 JACKET STRIP +1/16" - 0"

DRAWN BY: PM  
 CHKD BY: HO  
 FILE NAME: CAT5e/2PR-18GA COMPOSITE 80C 300V

DATE: 2014-12-05  
 ALL DIMENSIONS ARE IN INCHES  
 SHEET: 1 of 1  
 SCALE: NO SCALE

TITLE: CAT5e / 2PR-18GA COMPOSITE 80C 300V

REV	DESCRIPTION	INITIAL	APPR	DATE