

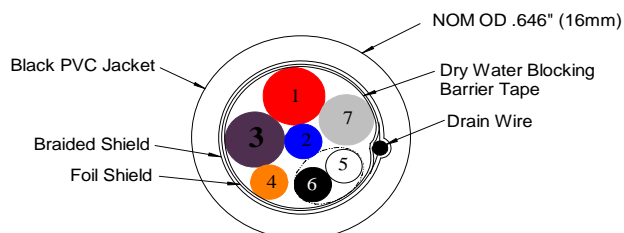
**Description:** Seven Conductor Composite Tray Cable,  
 XLPE Insulation, Overall Foil & Drain,  
 Dry Water Blocking Fillers and Tape  
 Braided Shield and Overall PVC Jacket

**Date:** 11/16/2015

**JM Part Number:** JM57522R1LC

**Reference:** TCCB09S-0JM-WB

**Requirements**



**Components**

	[Diameter]
Component A: 18 AWG Insulated Conductors Conductor: 18 AWG, 16/30 Tinned Copper Insulation: .031 XLPE Insulation	.109"
Component B: 18 AWG Twisted Pair Conductor: 18 AWG, 16/30 Tinned Copper Insulation: .031 XLPE Insulation Pair: Two 18 AWG conductors twisted together	.109" .218" (major axis)
Component C: 12 AWG insulated conductor Conductor: 12 AWG, 65/30 Tinned Copper Insulation: .032 XLPE Insulation	.160"
Component D: 18 AWG Insulated Conductor Conductor: 18 AWG, 16/30 Tinned Copper Insulation: .065 XLPE Insulation	.175"
Component E: 10 AWG insulated conductor Conductor: 10 AWG, 105/30 Tinned Copper Insulation: .032 XLPE Insulation	.189"

**Overall Cable Construction**

- Cabling: Two A Components, One B Component, One C Component, One D Component, One E Component (Dry Water Blocking Fillers as necessary to produce a round cable)
- Separator: Dry Water Blocking Tape
- Shield: M/A Foil Shield (Foil Out) + 18 AWG, 16/30 tinned copper drain wire
- Shield/Barrier: 34 TCBS 90% Coverage
- Jacket: .080" nominal wall of Black PVC (FTJ) Pressured to .646" +/- .025" (16mm +/- .64mm)

**Print**

**E73202 3/C 18AWG(.824MM2)+1/PR 18AWG(.824MM2)+1/C 12AWG(3.31MM2)+1/C 10AWG(5.26MM2)  
 (UL) TYPE TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES II UL 1277 OR  
 c(UL) CIC-TC FT4 --- LL41103 CSA AWM I/II A/B 90C 600V FT4 --- CE ROHS**

**Color Code**

- Component A: 2. Blue 4. Orange
- Component B: Pairs: 5. White 6. Black
- Component C: 7. Gray
- Component D: 3. Purple
- Component E: 1. Red

**Requirements**

- Temperature: 90°C / 75°C
- Voltage: 600V
- Conductors: ASTM B33-04
- Approvals: UL Type TC-ER  
 c(UL) Type CIC-TC FT4  
 UL AWM 2586  
 CSA AWM FT4  
 CE-LVD and RoHS Compliant (2011/65/EU)

**Capacitance**  
 #3 Purple Wire: 12.5pF/ft (41pF/m) 15.5pF/ft MAX (CDR/CDR)  
 22.5pF/ft (73.5pF/m) 28pF/ft MAX (CDR/SHLD) (#3 Purple to [#7 Gray + Drain])  
 18AWG Pair: 15.5pF/ft (50.7pF/m) 19.5pF/ft MAX (#5 White to #6 Black)  
*Note: Capacitance values and tolerance to be adjusted based on capacitance testing of sample lo*

Written By:	j.thomas	11/16/2015	Rev. 0	Initial Issue
Revised By:	RL	11/17/2015	Rev 01	Added NOM OD for "C" and Corrected NOM OD for "E"
Revised By:	RL	11/19/2015	Rev 02	Revised all cond. To TC. Removed 1 Comp. B. Revised o/a OD.
Revised By:	jrt	11/20/2015	Rev 03	Modify Layup Dwg / Legend / Diameter
Revised By:	jrt	11/23/2015	Rev 04	Update notes and details for layup, capacitance, CDR material, OD Tolerance; Update DWG

Revised By:	jrt	11/24/2015	Rev 05	Update component descriptions A-D to general notation for cabling notes
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