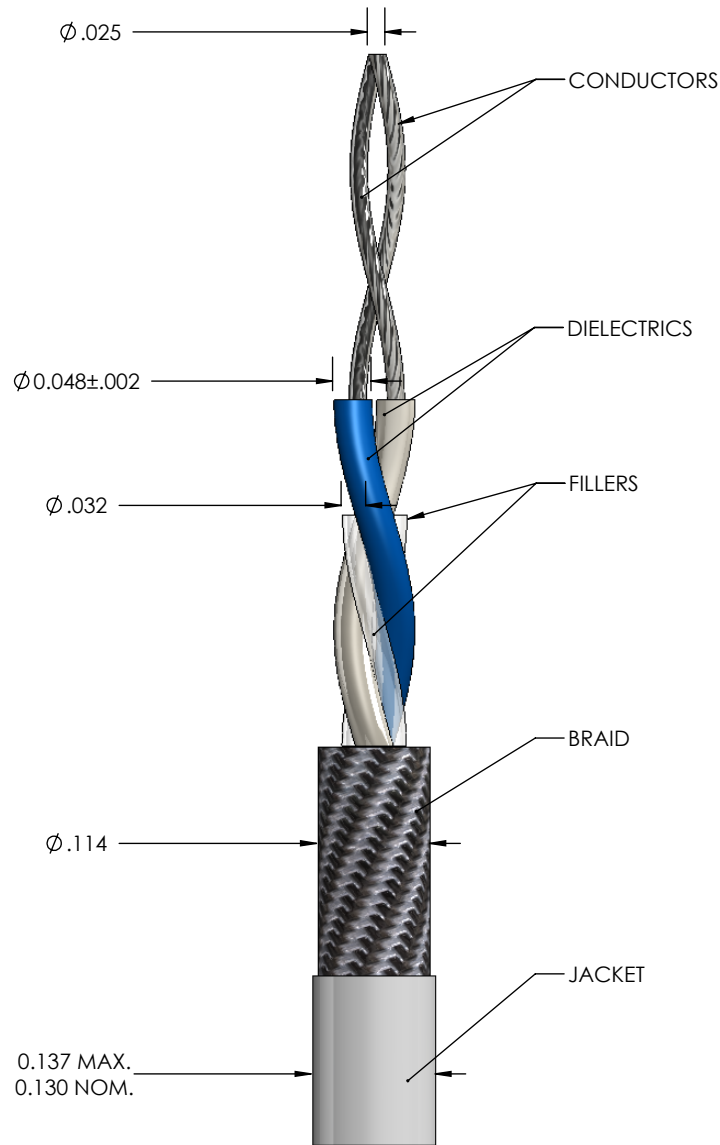


NOTES LOCATED SHEET 2

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	Initial Release-2275	02/08/11	D.D.



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DRAWN	M. Mangan	02/08/11
CHECKED	J. Mazenauer	02/08/11
APPROVED	D. Dong	02/08/11


TITLE:		CABLE, TWISTED PAIR, 77 OHM, 24 AWG, SINGLE SHIELD	
FSCM NO.	OSCJ7	PART NUMBER	C24612


DO NOT SCALE DRAWING

SCALE: NONE

SHEET 1 OF 2

NOTES: DIMENSIONS ARE NOMINAL VALUES IN INCHES.

 DC Resistance does not include shield.

PART NUMBER	COMPONENTS WIRES		INNER SHIELD	JACKET			DC RESISTANCE MAX AT 20°C PER 1000 FT 	WEIGHT LB/ 1000 FT MAX.
	SIZE	Ø ±.002	CARRIERS	MIN. WALL	MAX. WALL	DIA.		
C24612	24	.025	16	.006	.0115 MAX	.137 MAX.	29.7	15.9

1.0 MECHANICAL:

1.1 MATERIALS:

CONDUCTORS: MATERIALS SHALL BE IN ACCORDANCE WITH SAE-AS22759-35-24.

JACKET, DIELECTRIC & FILLERS: RADIATION CROSSLINKED MODIFIED ETFE.

PERMITIVITY: 2.7 NOMINAL.

SHIELD: 38 AWG TIN COATED COPPER 90% MIN. COVERAGE, PER NEMA-WC27500 TYPE T.

1.2 FINISH:

SHIELD: TIN COATED COPPER, PER NEMA-WC27500 TYPE T.

INSULATION: ONE COMPONENT WIRE LIGHT BLUE, ONE COMPONENT WIRE WHITE.

CABLING: COMPONENT WIRES SHALL BE TWISTED TOGETHER WITH TWO FILLERS IN A LEFT HAND LAY. LAY LENGTH SHALL BE .75 MIN. TO .125 MAX.

2.0 ELECTRICAL CHARACTERISTICS:

2.1 IMPEDANCE: 77 ±5 OHMS @1 MHz, MEASURE INDUCTANCE (L) @ 1 MHz OF A 10 FT, 2 IN TEST CABLE, USING ANY SUITABLE TEST INSTRUMENT. THE SHIELD SHALL BE FLOATED. THE END OF THE CABLE SHALL BE SHORTED. THE IMPEDANCE (Z) SHALL BE CALCULATED USING THE FOLLOWING FORMULA: WHERE INDUCTANCE = L & CAPACITANCE = C, Ref. MIL-C-17/178.

$$Z = \sqrt{\frac{L}{C}}$$

2.2 VOLTAGE RATING: CONDUCTOR TO CONDUCTOR: 750 VRMS MAX.

2.3 MUTUAL CAPACITANCE: 30 PF/FT MAX.

2.4 ATTENUATION:

- 1.4 dB/100 ft (maximum) @ 1 MHz
- 2.1 dB/100 ft (maximum) @ 3 MHz
- 2.4 dB/100 ft (maximum) @ 4 MHz
- 2.8 dB/100 ft (maximum) @ 5 MHz
- 3.5 dB/100 ft (maximum) @ 7 MHz
- 4.5 dB/100 ft (maximum) @ 10 MHz

2.0 ELECTRICAL CHARACTERISTICS CONT:

2.5 SURFACE TRANSFER IMPEDANCE: .100 MILLIOHM/METER MAX. @ 30 MHZ.

2.6 CONTINUITY: PER MIL-C-17 para 3.7.1.

2.7 SPARK TEST: PER MIL-C-17 para 3.7.2, 1000 VOLTS

2.8 VOLTAGE WITHSTANDING: PER MIL-C-17 para 3.7.3, 1000 VOLTS.

2.9 INSULATION RESISTANCE: PER MIL-C-17 , para 3.7.4, 5000 MAGOHM MIN, FOR 1000 FT.

2.10 FREQUENCY RANGE: 1 MHZ TO 10 MHZ.

2.11 VELOCITY OF PROPAGATION: 71% NOM.

2.12 DC RESISTANCE: SEE TABLE

2.13 CAPACITANCE UNBALANCE: PER MIL-C-17 para 3.7.11 5% MAX.

2.14 MUTUAL INDUCTANCE: 4.62 uh/ft MAX.

3.0 ENVIRONMENTAL:

3.1 TEMPERATURE RANGE: -55°C TO +200°C (-67°F TO 392°F).

3.2 FUNGUS: INERT

3.3 ECCENTRICITY: PER MIL-C-17 para 3.6.3

3.4 ADHESION OF CONDUCTORS: PER MIL-C-17 para 3.6.4.

3.5 DIMENSIONAL STABILITY: PER MIL-C-17 para 3.7.19.

3.6 ELONGATION: 50% MIN. (EACH) - JACKET & DIELECTRICS.

3.7 COLD BEND: SHALL MEET THE REQUIREMENTS SPECIFIED IN NEMA-C-27500.

3.8 FLAMMABILITY: 3 SECONDS MAX., 3 INCHES, NO FLAMING OF FACIAL TISSUE.

4.0 CABLE SUPPLIED IN MIN 100FEET LENGTHS.

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FSCM NO. **OSCJ7** PART NUMBER **C24612**