

SH

DWG NO

1. ELECTRICAL REQUIREMENTS:

1.1 RATED VOLTAGE: 3,000 VOLTS DC, MAXIMUM.

1.2. DIELECTRIC STRENGTH: 5400 VOLTS, MINIMUM, WHEN 100% TANK TESTED PER TEST REQUIREMENTS OF PARA. 4.4.2.1. OF MILITARY SPECIFICATION MIL-W-16878.

1.3 SPARK VOLTAGE: 7000 VOLTS.

1.4 CONDUCTOR DC RESISTANCE: 16.7 OHMS/1000 FEET AT +25°C MAXIMUM.

2. CONSTRUCTION:

2.1 CONDUCTOR: SIZE 22 PER MIL-C-16878, CONSISTING OF 19 STRANDS MINIMUM OF NO. 34 AWG SILVER-COVERED COPPER WIRE.

2.2 INSULATION: EXTRUDED POLYTETRAFLUORETHYLENE (TEFLON), TFE FLUOROCARBON.

2.2.1 WALL THICKNESS: 0.030 INCH NOMINAL.

2.2.2 COLOR: SEE TABLE.

2.2.3 OVERALL DIAMETER: 0.092 ±0.005 INCH.

3. ENVIRONMENTAL REQUIREMENTS:

3.1 OPERATING TEMPERATURE RANGE: -65C TO +200°C.

SIZE	FSCM	DWG NO.	REV
A	13499	422-4081-000 THRU 422-4110-000	F
SCALE	2754b/0061b	SHEET	2

<u>COLLINS PART NUMBER</u>	<u>BODY COLOR</u>	<u>FIRST STRIPE</u>	<u>SECOND STRIP</u>	<u>THIRD STRIPE</u>
422-4081-000	BLACK			
422-4082-000	BROWN			
422-4083-000	RED			
422-4084-000	ORANGE			
422-4085-000	YELLOW			
422-4086-000	GREEN			
422-4087-000	BLUE			
422-4088-000	VIOLET			
422-4089-000	GRAY			
422-4090-000	WHITE			
422-4091-000	WHITE	BLACK		
422-4092-000	WHITE	BROWN		
422-4093-000	WHITE	RED		
422-4094-000	WHITE	ORANGE		
422-4095-000	WHITE	GREEN		
422-4096-000	WHITE	BLUE		
422-4097-000	WHITE	BLACK	RED	
422-4098-000	WHITE	BLACK	ORANGE	
422-4099-000	WHITE	BLACK	GREEN	
422-4100-000	WHITE	BLACK	BLUE	
422-4101-000	WHITE	BROWN	RED	
422-4102-000	WHITE	BROWN	ORANGE	
422-4103-000	WHITE	BROWN	GREEN	
422-4104-000	WHITE	BROWN	BLUE	
422-4105-000	WHITE	RED	ORANGE	
422-4106-000	WHITE	RED	GREEN	
422-4107-000	WHITE	RED	BLUE	

DWG NO

SIZE A	FSCM 13499	DWG NO. 422-4081-000 THRU 422-4110-000	REV LTR F
SCALE		2754b/0061b	SHEET 3