Electrical Splicing Tape

for Harsh Environments



Nuclear Power Products and Services





Product Description

An easy-to-install alternate for electrical splicing.

Applications

- · Moisture sealing electrical splices
- Motor lead connections
- · Jacket repairs
- End sealing of cables

Design Features

- Self-bonding
- Easy Installation
- In-line, "V", 3-way and parallel
- · Crimped or bolted
- 600 volt (LOCA)
- 266°F (130°C) tape rating
- EQ tested
- No maintenance
- Low current leakage
- High insulation resistance
- No adhesives
- · No special cleaners
- · No special tools
- · Flame resistant
- Protects against oils, chemicals, ozone, heat and sunlight

Qualification Levels

600V

- Qualified life: 40 years at 194°F (90°C)
- Radiation: tested to 2E8 rads gamma
- LOCA: tested to 435°F/80 psig (223°C/652.9 kPa), 30-day
- · Chemical spray

Medium Voltage

- Qualified life: 40 years at 194°F (90°C)
- Radiation: tested to 5.2E7 rads gamma
- HELB: tested to 412°F (211°C) peak, 6 hour duration

Qualification Standards

Successfully qualified by test for power and control circuits in harsh environments, in accordance with:

- ANSI N45.2
- 10CFR50/Appendix B
- 10CFR50.49
- 10CFR21
- NQA-1
- IEEE Standards (vary per applicable EQ Qualification Report)



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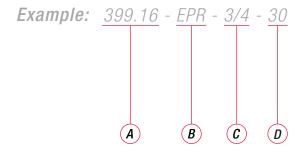
Test Report	Application Instruction	Voltage	Insulation	Jacket	Cover
SAIC-TR-399.16-05	SAIC-TR-399.16-02	0-600	Scotch 130C	Bishop 44	N/A
EGS-TR-399.16-16	EGS-TR-399.16-14	0-600	Scotch 130C	Scotch 130C	(Note 1)
EGS-TR-399.16-21	EGS-TR-399.16-22	0-600	Scotch 130C	Scotch 130C	Scotch 69
EGS-TR-399.16-20	SAIC-TR-399.16-11	Medium (Note 2)	Scotch 130C	Bishop 44/Scotch 130C	(Note 1)

Notes:

- 1. Scotch 69 can be used as an optional covering tape over the jacketing tape to provide additional mechanical protection and will prevent the Scotch 130C tape from adhering to adjacent splices or metallic structures.
- 2. For stress shielding over all conductors energized at 2000 volts or greater, EGS used Bishop 17 semi-conducting tape and Scotch 24 shielding tape.

How to Order

EGS Harsh Environement Electrical Splicing Tape is ordered by product number.



Project Number	Material	Width (inches)	Length (feet)	Description	
399.16	EPR	3/4	30	3M Scotch 130C Ethylene Propylene Rubber Insulating and Jacketing Tape	
399.16	EPR	1.0	30		
399.16	EPR	1.5	30		
399.16	EPR	2.0	30		
399.16	NEO	3/4	30	Bishop 44 Neoprene Jacketing Tape	
399.16	SC	3/4	15	Bishop 17 Semi-Conducting EPR Tape	
399.16	CU	1	15	Scotch 24 Copper Braid Tape	
399.16	GLS	3/4	66	Scotch 69 Glass Covering Tape	