

# GelWrap TW and TWHI Splice and Skinning Closure for Tree Wire and Spacer Cable

The GelWrap TW series of insulating and sealing kits provide a quick and easy method to cover splices and skinnings on tree wire and spacer cable. The GelWrap TW kits are a practical way to insulate and seal the cable.

## **Fast and easy installation**

The innovative wrap around design means no parking of tubes before splicing. In addition, it makes it an ideal solution for covering abandoned skinnings where tubular covers are not an option. Simply wrap the sleeve over the cable and snap closed. GelWrap sleeves can easily be cut to length in the field for custom sizing.

## **Dependable performance**

The factory cured silicone gel sealant in the GelWrap sleeve completely encapsulates the connection and cable. Since the gel is easily stretched and very sticky, it basically forms around the cable and connector sticking to everything including itself. Moisture can not enter the splice.

## **PowerGel sealing gel**

PowerGel sealing gel was specifically developed for the electrical power industry. It consists of a chemically cross linked silicone elastomer swollen with a silicone oil. PowerGel sealing gel is hydrophobic and provides an excellent moisture seal over a wide operating temperature range (-40 to 95°C)



## Product Selection

Kit Description	Kit Use Range			GelWrap Sleeve Length
	Minimum Cable OD	Maximum Cable or Connector OD	Maximum Jacket Opening Length	
Standard Kits				
GelWrap-TW-33-300	.40" (10mm)	1.30" (33mm)	8.0" (200mm)	12" (300mm)
GelWrap-TW-33-450	.40" (10mm)	1.30" (33mm)	14.0" (350mm)	18" (450mm)
GelWrap-TW-33-600	.40" (10mm)	1.30" (33mm)	20.0" (500mm)	24" (600mm)
GelWrap-TW-50-300	.80" (20mm)	2.0" (50mm)	8.0" (200mm)	12" (300mm)
GelWrap-TW-50-450	.80" (20mm)	2.0" (50mm)	14.0" (350mm)	18" (450mm)
GelWrap-TW-50-600	.80" (20mm)	2.0" (50mm)	20.0" (500mm)	24" (600mm)
Increased Performance Kits with added mastic				
GelWrap-TWHI-33-300	.40" (10mm)	1.1" (28mm)	6.0" (150mm)	12" (300mm)
GelWrap-TWHI-33-450	.40" (10mm)	1.1" (28mm)	12.0" (300mm)	18" (450mm)
GelWrap-TWHI-33-600	.40" (10mm)	1.1" (28mm)	18.0" (450mm)	24" (600mm)
GelWrap-TWHI-50-300	.80" (20mm)	1.8" (45mm)	6.0" (150mm)	12" (300mm)
GelWrap-TWHI-50-450	.80" (20mm)	1.8" (45mm)	12.0" (300mm)	18" (450mm)
GelWrap-TWHI-50-600	.80" (20mm)	1.8" (45mm)	18.0" (450mm)	24" (600mm)

## Product Performance

The application of a GelWrap sleeve over the connection approximately triples the impulse withstand capability as compared to a bare connector with a wet branch shorting from phase to messenger.

Testing with grounded tin plated copper mesh wrapped at center of GelWrap Sleeve

Test	TW KIT	TWHI KIT
AC Withstand, dry, 1 minute	25kV	25kV
AC Withstand, dry, 4 hours	25kV	35kV
BIL, (1.2x50 $\mu$ seconds) 10+/10-	Approx 65kV	95kV



For additional testing information refer to the following test reports.

EDR-5358 Material qualification on gelwrap blue silicone gel

EDR-5359 Material qualification on gelwrap black latch material

EDR-5360 Material qualification on gelwrap black webbed housing material

EDR-5366 Voltage withstand testing of GelWrap 33/10 for overhead insulated cable