Transition Joint
TJNT3-33

G&W Electric

Engineered to order. Built to last.

TJNT3-33 transition joints are available for 33kV systems for joining gas insulated cable to extruded dielectric cable. G&W Electric has been a leading supplier of innovative underground cable accessory solutions since it was founded in 1905. With installations and sales representation worldwide, G&W Electric continues to offer the latest technology products with world-class, time-proven performance.

APPLICATIONS

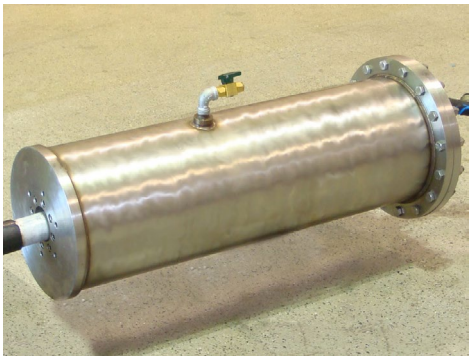
- Provides transition between 3-core gas insulated cable to three single core extruded cables.
- Can be modified to work on high pressure fluid filled cables rated 33kV and below to transition to three single core extruded cables.

FEATURES

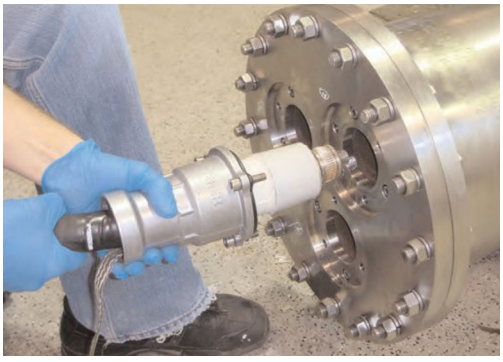
- Three fully shielded tape stress relief cones on gas insulated cable side.
- Dry, plug-in type terminations with premolded stress cones on extruded cable side.
- Epoxy insulators for plug-in terminations on extruded cable side
- Stainless steel enclosure, pressure tested to 400psi.

BENEFITS

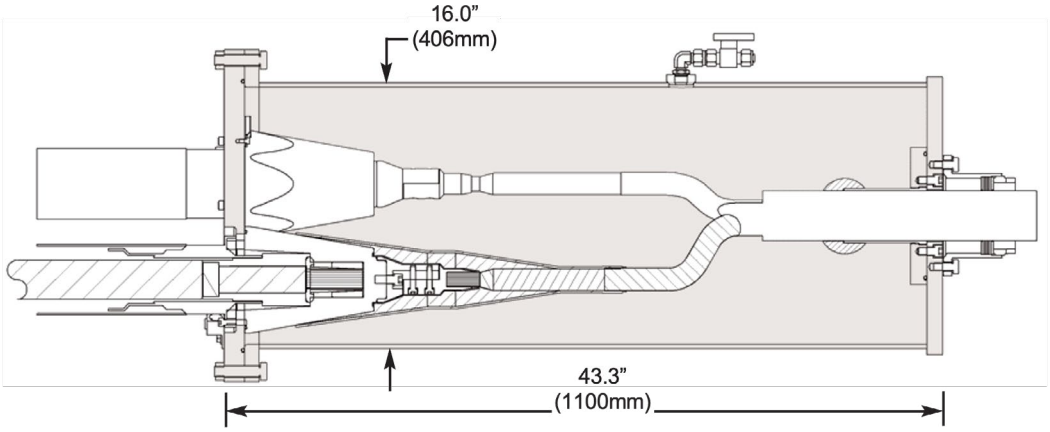
- Shorter design that requires less space than competitive designs.
- Option of terminating gas insulated cable first and connecting extruded cables at a later time.



Stainless steel encloser tested to 400 psi



Plug-in terminations on extruded dialectric cable side



CATALOG NUMBER

Use the chart below to build your G&W Electric catalog number. This number should be used for all inquiries and quoterequests. In addition, the following cable information is required to process your order:

1. Conductor size and Outer Diameter (O.D.). of conductor (nominal and max)
2. Insulation O.D. (min and max)
3. Insulation shield O.D. (min and max)
4. Jacket O.D. (nominal and max)
5. Cable construction details with metallic screen type and fault current rating

TJNT3-33 - HP - 350M C - N - 750K C - B - F

1 2 3 4 5 6 7 8 9

EXAMPLE

TJNT3-33HP-350MC-N-750KC-B-F 33kV transition joint for connecting 3-core, 350mm², high pressure gas insulated copper cable to 750kcmil extruded dielectric cable. Shield break required on extruded cable side. Joint is to be supplied with fiberglass housing and filling compound.

1 System Voltage

Rated Voltage kV	BIL (kV)	Code
33	150	TJNT3-33

2 Gas Insulated Cable Pressure Rating

Cable Type	Nominal Pressure Rating (Max.)	Code
High pressure gas insulated	200 psi	HP

3 Gas Insulated Cable Conductor Size

Cable Cond. Size kcmil	Code	Cable Cond. Size mm²	Code
250	250K	240	240M
500	500K	350	350M
750	750K	400	400M
1000	1000K	500	500M

*Requires fiberglass housing with compound (Code F in Additional Housing Protection)

4 Gas Insulated Cable Conductor Material

Material	Code
Copper	C
Aluminum	A

5 Gas Insulated Cable Shield Break Option

Description	Code
With Shield Break*	B
Without Shield Break	N

6 Extruded Cable Conductor Size

Extruded Cable Cond. Size kcmil	Code	Extruded Cable Cond. Size mm²	Code
250	250K	240	240M
500	500K	300	300M
500	750K	400	400M
750	1000K	500	500M
1000	1250K	630	630M

7 Extruded Cable Shield Break Option

Material	Code
Copper	C
Aluminum	A

8 Extruded Cable Conductor Material

Description	Code
With Shield Break	B
Without Shield Break	N

9 Extruded Cable Shield Break Option

Description	Code
None	X
Fiberglass Housing with Compound	F

Contact us today

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Since 1905, G&W Electric has been a leading provider of innovative power grid solutions including the latest in load and fault interrupting switches; reclosers; sensors; system protection equipment; power grid automation; transmission and distribution cable terminations; and joints and other cable accessories. G&W Electric is headquartered in Bolingbrook, Illinois, U.S.A., with manufacturing facilities and sales support in more than 100 countries, including Canada, Italy, China, Mexico, Brazil, India and Singapore. We help our customers meet their challenges and gain a competitive edge through a suite of advanced products and technical services.

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GW129
2025.04/GF