



Engineered to Order
Built to Last

Transition Joints

145kV

G&W's TJNT transition joints are available for joining oil filled cable to extruded dielectric cable. G&W 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 continues to offer the latest technology products with world-class, time-proven performance. G&W is ISO 9001: 2000 registered for its quality systems. G&W offers a wide variety of terminations and joints for all types of cable construction through 500kV.

APPLICATIONS

- Connect self contained oil filled cable to extruded dielectric (XLPE or EPR) cables.
- 127-2000mm² single conductor copper or aluminum with or without hollow core.
- Connect pipe type cables to extruded dielectric (XLPE or EPR) cables.
- 127-2000mm² copper or aluminum, XLPE or EPR insulated.

FEATURES

- Third party tested per applicable requirements of IEEE 404 and IEC 60840.
- More economical than replacing entire cable runs with modern extruded dielectric cable.
- Allows phase-in of extruded dielectric cable over several months or years
- Ability to terminate oil cable and extruded cable side independently.
- Available with fiberglass enclosure and filling compound.

- Disconnectable, permitting easier future replacement of oil cable with extruded cable without cutting connectors or pulling additional cable.
- Suitable for vault or direct burial applications.

Oil cable side

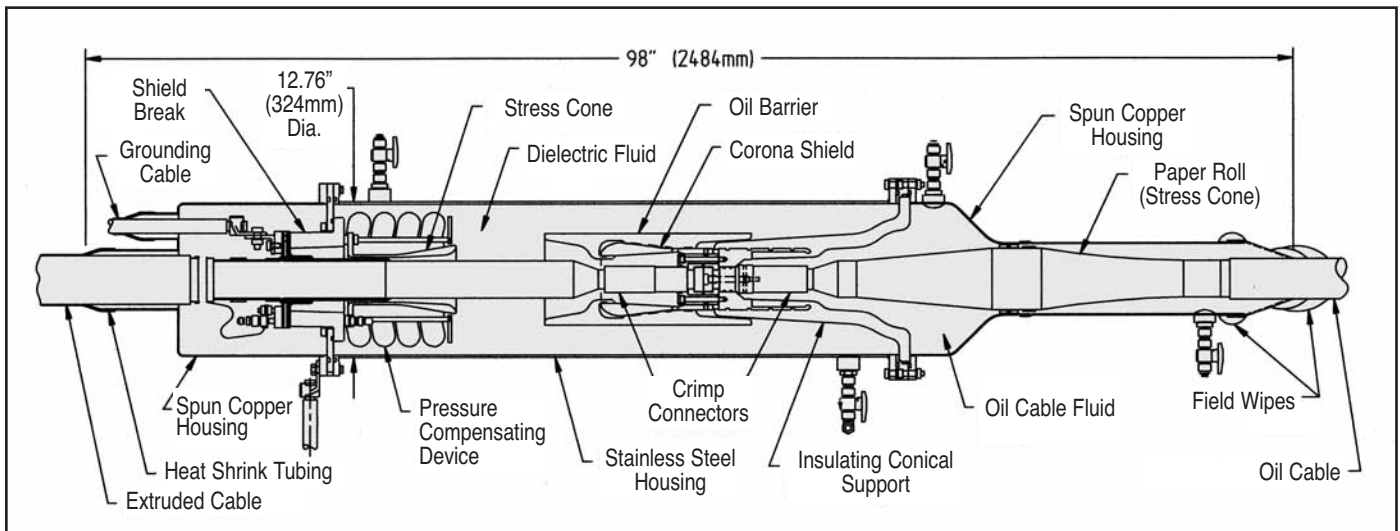
- Pre-fabricated paper roll stress control permits faster installation, with no field taping required.
- Shield break available with fiberglass housing option for cross bonding or grounding.

Extruded cable side

- Internal pressure compensation eliminating the need for an external accumulator.
- Elastometric diaphragm and retained "O" ring double sealing system.
- Shield break available for cross bonding or grounding.



▲ TJNT140 in a vault application



Transition Joints

CATALOG NUMBER

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

1. Conductor size and 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

TJNT140 - HP - 1000K C - N - 630M C - B - F



1 System Voltage

Rated Voltage kV (IEC)	Rated Voltage kV (IEEE)	BIL (kV)	Code
145	138	650	TJNT140

2 Oil Cable Pressure Rating

Oil Cable Type	Nominal Pressure Rating (Max.)	Code
Self Contained	116 psi	X
Pipe Type	400 psi	HP

3 Oil Cable Conductor Size

Oil Cable Cond. Size kcmil	Code	Oil Cable Cond. Size mm ²	Code
250	250K	240	240M
500	500K	300	300M
750	750K	400	400M
1000	1000K	500	500M
1250	1250K	630	630M
1500	1500K	800	800M
1750	1750K	1000	1000M
2000	2000K	1200	1200M
2500	2500K	1600	1600M
3000	3000M	2000	2000M
4000	4000M		

4 Oil Cable Conductor Material

Material	Code
Copper	C
Aluminum	A

5 Oil Cable Shield Break Option

Description	Code
With Shield Break*	B
Without Shield Break	N

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

6 Extruded Cable Conductor Size

Extruded Cable Cond. Size kcmil	Code	Extruded Cable Cond. Size mm ²	Code
250	250K	240	240M
500	500K	300	300M
750	750K	400	400M
1000	1000K	500	500M
1250	1250K	630	630M
1500	1500K	800	800M
1750	1750K	1000	1000M
2000	2000K	1200	1200M
2500	2500K	1600	1600M
3000	3000K	2000	2000M
4000	4000K		

7 Extruded Cable Conductor Material

Material	Code
Copper	C
Aluminum	A

8 Extruded Cable Shield Break Option

Description	Code
With Shield Break	B
Without Shield Break	N

9 Additional Housing Protection

Description	Code
None	X
Fiberglass Housing with Compound	F

EXAMPLES:

TJNT140-1000KC-N-630MC-B-F

145kV transition joint for connecting 1000kcmil self contained oil filled, copper conductor cable to 630mm² copper conductor extruded cable. Shield break is not required on oil cable side. Shield break required on extruded cable side. Joint is to be supplied with fiberglass housing and filling compound.