

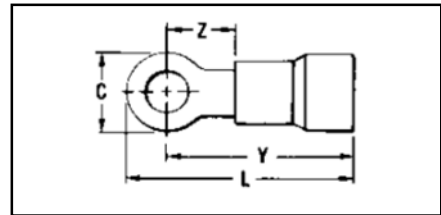
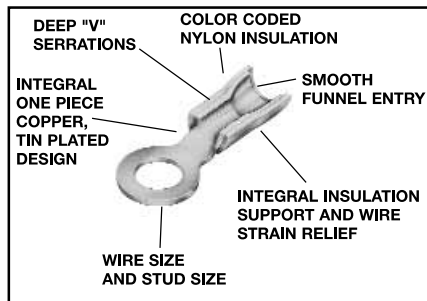
## TYPES TN AND YAES

## INSULUG™

Terminal — Nylon Insulated,  
Ring-Tongue

300 Volts Max., 105°C Max.

INSULUG™ type TN Nylon-insulated terminals are designed for heavy duty industrial, utility and military power and control-circuit applications for wire sizes 26 AWG through 10 AWG. They offer high dielectric strength and stability in oily conditions and meet military CLASS 1 and CLASS 2 requirements per SAE-AS25036 and the requirements of military specifications SAE-AS7928.



## Features and Benefits

- An integral one-piece copper barrel /insulation grip and wire strain relief design.
  - Provides improved physical strength characteristics over a multi-piece design.
- Manufactured of pure electrolytic copper.
  - Provides maximum conductivity, low resistance and ductility for excellent crimp forming properties.
- Brazed seam.
  - Provides a stronger barrel design to minimize any possible splitting and eliminates folding.
- Deep inner barrel serrations.
  - Provides excellent electrical conductivity and pullout strength values.
- Smooth funnel entry.
  - Easy wire insertion.
- The insulation is locked in place.
  - Will not twist off, thereby maintains proper dielectric values.
- Electro-tin plated.
  - Provides durable long-lasting resistance to corrosion.
- Color-coded and clearly marked.
  - Provides quick, easy wire size identification.
- Ring Tongue.
  - Provides a secure termination under the screw head that can not be removed without complete removal of the screw.
- Two or more terminals may be stacked on a common stud easily.
  - Provides flexibility and versatility.

Catalog Number	Wire Range	Stud Size	SAE-25036	Dimensions				Bulk ▲ Catalog Number	Installation Tooling	Wire Strip Length
				C	L Max.	Y Max.	Z Max.			
<b>TN18-4</b>	22-18 Max. Insul. Dia. Accom.: .120 Color Code: Red	3-4	-148	.23	.76	.64	.20	<b>YAES18N48</b>	Non-Ratchet: Y10D, Y1022	7/32"
<b>TN18-6</b>		4-6	-101	.25	.76	.64	.20	<b>YAES18N1</b>		
<b>TN186G1</b>		4-6	-102	.25	.87	.74	.49	<b>YAES18N2</b>		
<b>TN18-8</b>		6-8	-149	.31	.91	.76	.29	<b>YAES18N49</b>		
<b>TN18-10</b>		8-10	-103	.31	.91	.76	.29	<b>YAES18N3</b>		
<b>TN18-14</b>		12, 1/4	-150	.46	1.09	.87	.41	<b>YAES18N50</b>		
<b>TN18-516</b>		5/16	-104	.46	1.09	.87	.41	<b>YAES18N4</b>		
<b>TN18-38</b>	16-14 Max. Insul. Dia. Accom.: .153 Color Code: Blue	3/8	-105	.53	1.17	.91	.45	<b>YAES18N5</b>		7/32"
<b>TN14-4</b>		3-4	-152	.25	.79	.67	.24	<b>YAES14N52</b>		
<b>TN14-6</b>		4-6	-106	.25	.79	.67	.24	<b>YAES14N6</b>		
<b>TN146G1</b>		4-6	-107	.30	.91	.76	.51	<b>YAES14N7</b>		
<b>TN14-8</b>		6-8	-153	.31	.89	.74	.31	<b>YAES14N53</b>		
<b>TN14-10</b>		8-10	-108	.31	.89	.74	.31	<b>YAES14N8</b>		
<b>TN14-14</b>		12, 1/4	-154	.45	1.08	.86	.43	<b>YAES14N54</b>		
<b>TN1412G1</b>		1/2	-155	.71	1.32	.97	.72	<b>YAES14N55</b>		
<b>TN14-516</b>		5/16	-109	.45	1.08	.86	.43	<b>YAES14N9</b>		
<b>TN14-38</b>		3/8	-110	.53	1.16	.90	.47	<b>YAES14N10</b>		
<b>TN10-6</b>	12-10 Max. Insul. Dia. Accom.: .210 Color Code: Yellow	4-6	-111	.37	1.12	.94	.26	<b>YAES10N11</b>	Ratchet: MR8-83	11/32"
<b>TN10-8</b>		6-8	-156	.37	1.12	.94	.26	<b>YAES10N56</b>		
<b>TN10-10</b>		8-10	-112	.37	1.12	.94	.26	<b>YAES10N12</b>		
<b>TN10-14</b>		12, 1/4	-157	.53	1.32	1.06	.37	<b>YAES10N57</b>		
<b>TN10-516</b>		5/16	-113	.53	1.32	1.06	.37	<b>YAES10N13</b>		
<b>TN10-38</b>		3/8	-114	.58	1.34	1.05	.40	<b>YAES10N14</b>		

▲ Class 1 and class 2. Meets the requirement of aerospace specification SAE-AS7928.

Blue highlighted items are industry standard and most frequently ordered.

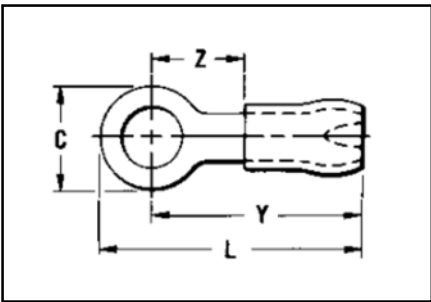
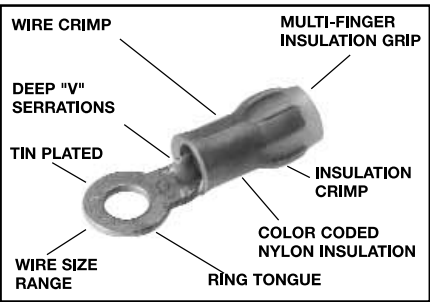
# TYPES YAE-G AND YAE-N

## INSULUG™

Terminal — Nylon Insulated, Ring-Tongue Multi-Finger Insulation Grip

300 Volts Max., 105° C Max.

INSULUG™ Types YAE-G and YAE-N nylon insulated terminals are designed with a multi-finger insulation grip for paper, EPR and other elastic or hard to grip insulations. The metal fingers firmly grip the insulation providing superior holding characteristics, cable support and strain relief. Types YAE-G and YAE-N terminals are rated 105° C and meet military standard AS25036 Class 2 and SAE-AS7928 requirements.



### Features and Benefits

- Multi-finger insulation grip.
  - Provides superior insulation holding characteristics, especially on EPR and other elastic-type insulations.
- Brazed seam.
  - Provides stronger more durable termination.
- Manufactured of pure electrolytic copper.
  - Provides maximum conductivity, low resistance and ductility for excellent crimp forming properties.
- Deep V groove, inner barrel serrations.
  - Provide optimum conductivity, reliability, and holding power.
- Smooth funnel entry.
  - Easy wire insertion.

Catalog Number	Wire Range	Stud Size	** SAE-AS25036	Dimensions				Bulk Catalog Number*	Installation Tooling	Tape Mounted Catalog Number 2000/Reel	Installation Tooling	Wire Strip Length
				C	L Max.	Y Max.	Z Max.					
YAE22G18 BOX•	26-20	1.2	-148	.15	.70	.62	.22	YAE22G18•	M8ND with N14HET-25V1 Die MR8-1A	YAE22G18M•	TFM with DFM11D1 Die	5/32"
YAE22G12 BOX•	Max. Insul.	1.2	—	.25	.75	.62	.22	YAE22G12•		—		
YAE22G16 BOX•	Dia. Accom.:	3.4	-144	.18	.75	.62	.22	YAE22G16•		YAE22G16M•		
YAE22G13 BOX•	.098	4-6	-145	.25	.75	.62	.22	YAE22G13•		YAE22G13M•		
YAE22G14 BOX•	Color Code:	6-8	-146	.32	.83	.67	.27	YAE22G14•		—		
YAE22G15 BOX•	Amber	8-10	-147	.32	.83	.67	.27	YAE22G15•		—		

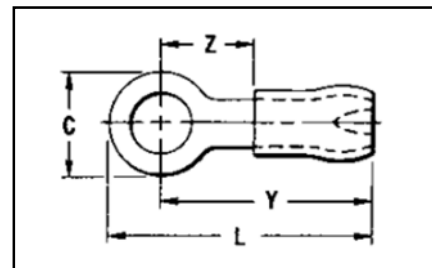
• Not UL recognized or Listed.  
 \* 1000/Box  
 \*\* Class 2

Blue highlighted items are industry standard and most frequently ordered.

# TYPES YAE-G AND YAE-N

(Continued)

INSULUG™



Catalog Number	Wire Range	Stud Size	**SAE-AS25036	Dimensions				Bulk Catalog Number	Installation Tooling	Tape Mounted Catalog Number 2000/Reel	Installation Tooling	Wire Strip Length
				C	L Max.	Y Max.	Z Min.					
YAE18N29 BOX	22-16 † Max. Insul. Dia. Accom.: .125 Color Code: Red	1-2	—	.14	.75	.68	.19	YAE18N29	MR8-1A, MR8-33T-1 (no extra dies required) M8ND with one of following dies: N14HET-25V1 N10ET-9 N14HET-15 N10ET-23  or  Y10D Y10-22	YAE18N29M	TFM with DFM10D1 die	3/16"
YAE18N27 BOX		2	—	.19	.77	.66	.19	YAE18N27		YAE18N27M		
—		4	—	.25	.80	.68	.19	YAE18-N7		YAE18-N7M		
—		4	-148	.25	.80	.68	.19	YAE18N17		—		
—		4	—	.23	.78	.68	.19	YAE18N26		YAE18N26M		
YAE18N21 BOX		4-6	-102	.25	.89	.77	.28	YAE18N21		YAE18N21M		
—		4-6	—	.22	.79	.68	.19	YAE18N25		YAE18N25M		
YAE18G43 BOX		4-6	-101	.25	.90	.68	.19	YAE18G43		YAE18G43M		
YAE18N24 BOX		6-8	—	.28	.92	.77	.28	YAE18N24		YAE18N24M		
YAE18N1 BOX		6-8	-149	.31	.92	.77	.28	YAE18N1		YAE18N1M		
YAE18N BOX		8-10	-103	.31	.92	.77	.28	YAE18N		YAE18NM		
YAE18N2 BOX		12, 1/4	-150	.45	1.11	.88	.40	YAE18N2		YAE18N2M		
YAE18N3 BOX		5/16	-104	.45	1.11	.88	.40	YAE18N3		YAE18N3M		
YAE18N15 BOX		3/8	-105	.53	1.19	.93	.43	YAE18N15		YAE18N15M		
YAE14N43 BOX	16-14 Max. Insul. Dia. Accom.: .156 Color Code: Blue	4-6	-106	.25	.82	.69	.20	YAE14N43	Y10D Y10-22	YAE14N43M	TFM with DFM9D1 die	3/16"
YAE14N1 BOX		6-8	-153	.31	.92	.75	.28	YAE14N1		YAE14N1M		
YAE14N BOX		8-10	-108	.31	.92	.75	.28	YAE14N		YAE14NM		
YAE14N2 BOX		1/4	-154	.45	1.11	.88	.40	YAE14N2		YAE14N2M		
YAE14N3 BOX		5/16	-109	.45	1.11	.88	.40	YAE14N3		YAE14N3M		
YAE14N4 BOX		3/8	-110	.53	1.19	.93	.44	YAE14N4		YAE14N4M		
—	14-12 Max. Insul. Dia. Accom.: .180 Color Code: Green	10	—	.31	1.06	.93	.29	YAE12N7	MR8-1A, MR8-33T-1 (no extra dies required) Y10D, M8ND with die N12HET-1	—	TFM with DFM7D1 die	21/64"
YAE12N9 BOX		6-8	—	.31	1.06	.90	.28	YAE12N9		YAE12N9M		
YAE12N1 BOX		6-8	—	.31	1.06	.90	.28	YAE12N1		YAE12N1M		
YAE12N BOX		8-10	—	.31	1.06	.90	.28	YAE12N		YAE12NM		
YAE12N2 BOX	12-10 Max. Insul. Dia. Accom.: .209 Color Code: Yellow	1/4	—	.46	1.25	1.02	.40	YAE12N2	MR8-33T-1 (no extra dies required) M8ND with one of the following dies: N10HET-15, N10ET-9, N10ET-23, Y10D, Y10-22	YAE12N2M	TFM with DFM7D1 die	3/8"
YAE10N5 BOX		4-6	-111	.38	1.15	.96	.28	YAE10N5		* YAE10N5M		
YAE10N11 BOX		6-8	-156	.38	1.17	.98	.30	YAE10N11		* YAE10N11M		
YAE10N BOX		8-10	-112	.38	1.15	.96	.28	YAE10N		* YAE10NM		
YAE10N3 BOX		1/4	-157	.54	1.39	1.12	.44	YAE10N3		* YAE10N3M		
YAE10N2		5/16	-113	.54	1.39	1.12	.44	YAE10N2		* YAE10N2M		
YAE10N4		3/8	-114	.54	1.39	1.12	.44	YAE10N4		* YAE10N4M		

\* 1000/Reel

\*\* Class 2

† Use Y10D or Y10-22 only when crimping #16 AWG.

Blue highlighted items are industry standard and most frequently ordered.

## TYPE YAES-K

### INSULUG™

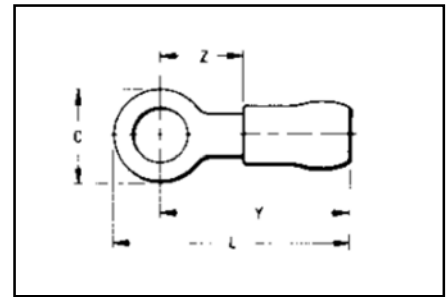
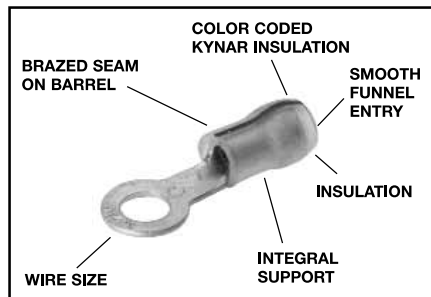
### NUCLEAR TERMINALS AND SPLICES

Radiation Resistant  
Insulated Terminals,  
Ring Tongue

Polyvinylidene (PVF<sub>2</sub>) Insulated  
200 Megarads, -60° through  
150° C, 600 Volts

The type YAES-K, radiation resistant KYNAR® insulated terminals are designed and have been tested to meet the requirements for class 1E critical circuits as set by the Nuclear Regulatory Commission (NRC). Additional testing for compatibility under loss of coolant accident (LOCA) conditions with cross-link polyethylene (XLP) and HYPALON® insulations was completed successfully. Compatibility with ethylene propylene rubber (EPR) insulation was determined by analysis. Each terminal is manufactured of pure electrolytic copper per QQ-C 576 and bright tin-plated per MIL-T-10727 and meets or exceeds SAE-AS7928 using stranded copper AWG wire. The KYNAR® insulation offers 200 megarad radiation resistance.

The Type YAES-K radiation resistant KYNAR® - insulated terminals are suitable for class 1E critical circuits and non-critical nuclear associated applications.



### Features and Benefits

- KYNAR® insulation.
  - ☐ Provides 200 megarad radiation resistance plus successfully tested for insulation compatibility.
- An integral one-piece copper barrel/insulation grip and wire strain relief design.
  - ☐ Provides improved physical strength characteristics over a multi-piece design.
- The KYNAR® insulation is locked in place.
  - ☐ The insulation will not move or twist off, thereby maintains proper dielectric values.
- Manufactured from pure electrolytic copper.
  - ☐ Provides maximum conductivity, low resistance and ductility for excellent crimp forming properties.
- Bright tin-plated per MIL-T-10727.
  - ☐ Provides durable long-lasting resistance to corrosion.
- Deep inner barrel serrations.
  - ☐ Provides excellent electrical conductivity and tensile strength values.
- Brazed seam.
  - ☐ Provides a stronger barrel design to minimize any possible splitting and eliminates folding.
- Smooth funnel entry.
  - ☐ Easy wire insertion.
- Color coded terminals.
  - ☐ Provides easy wire size identification and inspection.
- Coded raised dots in the die area of the connection after compression.
  - ☐ Provides visual identification that the correct tool and die were used for proper installation.
- Inspection hole.
  - ☐ Permits visual check for proper wire insertion.
- Ring tongue design.
  - ☐ Provides a secure termination under screw head that cannot be removed without the complete removal of the screw.
- Multiple terminals may be stacked on a common stud easily.
  - ☐ Provides flexibility and versatility.

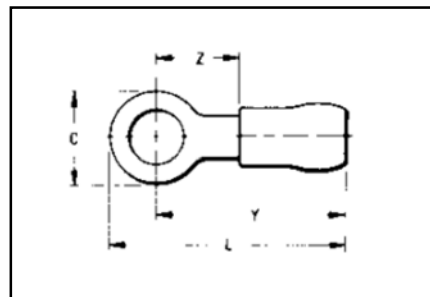
KYNAR - is a registered trademark of the Pennwalt Corp. for Polyvinylidene Fluoride (PVF<sub>2</sub>)

HYPALON - Is a registered trademark of the E.I. DuPont de Nemours & Co., Inc.

Blue highlighted items are industry standard and most frequently ordered.

**TYPE YAES-K**

(Continued)

**INSULUG™**

Catalog Number	Wire Range	Stud Size	Dimensions				Installation Tooling	Wire Strip Length
			C	L Max.	Y Max.	Z Min.		
YAES18K48	22-18 AWG str. Max. Insul. Dia. Accom.: .120 Color Code: Red	4	.23	.76	.64	.20	Ratchet Tool: MR10G6 Crimp Mark: (1) Small Dot Red Groove  Calibration Gauge: PG-373-1	7/32"
YAES18K-1		6	.23	.76	.64	.20		
YAES18K-2		6	.25	.87	.74	.29		
YAES18K-49		8	.31	.91	.76	.29		
YAES18K-3		10	.31	.91	.76	.29		
YAES18K-50		1/4	.46	1.09	.86	.41		
YAES18K-4		5/16	.46	1.09	.86	.41		
YAES18K-5		3/8	.53	1.18	.91	.45		
YAES14K-6	16-14 AWG str. Max. Insul. Dia. Accom.: .153 Stock Thickness: .032 Color Code: Blue	6	.25	.77	.65	.22	Ratchet Tool: MR10G6 Crimp Mark: (2) Small Dots Blue Groove Calibration Gauge: PG-371-1	7/32"
YAES14K-7		6	.31	.91	.76	.29		
YAES14K-53		8	.31	.91	.76	.29		
YAES14K-8		10	.31	.91	.76	.29		
YAES14K-54		1/4	.46	1.09	.86	.41		
YAES14K-9		5/16	.46	1.09	.86	.41		
YAES14K-10	12-10 AWG str. Max. Insul. Dia. Accom.: .210 Stock Thickness: .040 Color Code: Yellow	3/8	.53	1.18	.91	.45	Ratchet Tool: MR10G6 Crimp Mark: (1) Large Dot  Calibration Gauge: PG-372-1	3/8"
YAES10K-11		6	.38	1.12	.94	.26		
YAES10K-11T1		6	.31	1.09	.94	.26		
YAES10K-56		8	.38	1.12	.94	.26		
YAES10K-12		10	.38	1.12	.94	.26		
YAES10K-57		1/4	.53	1.32	1.06	.37		
YAES10K-13		5/16	.53	1.32	1.06	.37		
YAES10K-14		3/8	.58	1.34	1.05	.40		
YAES10K-58		1/2	.72	1.41	1.06	.45		

Blue highlighted items are industry standard and most frequently ordered.