



RAYCHEM MEDIUM VOLTAGE TERMINATION (HVT)

5 kV - 35 kV

KEY FEATURES

- Broad range of standard indoor and outdoor kits for all plastic cable types, including armored cable
- Easy installation with a single technique which eliminates retraining—even on armored cable
- HVT termination system may be installed upright or inverted and can bend to the same bending radius as the cable

TE Connectivity's (TE) Raychem HVT medium voltage termination system features a non-tracking, insulating surface that can withstand long-term electrical stress and surface pollution. The need for proven stress control is even more important at higher voltages. The materials used in TE's HVT terminations are suitable for severely polluted areas and for all installation conditions, including top feed installation.

Reliable, field proven performance

Independent testing and field experience have repeatedly proven the long-term stability, durability and reliability of the HVT system, even in highly polluted environments. The non-tracking, insulating outer jacket can withstand the rigors of long-term electrical stress and surface pollution without loss of performance. TE's non-tracking material offers the additional benefit of being maintenance free, with no need for periodic cleaning. Extensive load cycle testing verifies the long-term thermomechanical compatibility between the termination system and the cable.

Testing

TE's medium-voltage terminations are fully qualified per IEEE-48 as Class I terminations to provide a long, trouble-free service life.

Ease of installation

The HVT termination kits can be installed on all cable types without special adapters or accessories.

ENERGY /// RAYCHEM HVT MEDIUM VOLTAGE TERMINATION

Raychem[®]

TE
connectivity



SELECTION INFORMATION: DIMENSIONS IN INCHES (MILLIMETERS)

Indoor	Outdoor Kit	Conductor Size (Min. - Max.)		Insulation Diameter (Min. - Max.)	Jacket O.D. (Max)
		5 kV (0.90")	8 kV (0.115")		
HVT-80-G	HVT-80-SG	#4 AWG - #1* AWG	#6 AWG - #2 AWG	0.35 - 0.60 (9 - 15)	0.95 (24)
HVT-81-G	HVT-81-SG	1/0 AWG - 250* kcmil	#1 AWG - 4/0 AWG	0.60 - 0.95 (15 - 24)	1.20 (30)
HVT-82-G	HVT-82-SG	300 kcmil - 500* kcmil	250 kcmil - 500 kcmil	0.80 - 1.25 (20 - 32)	1.50 (38)
HVT-83-G	HVT-83-SG	600 kcmil - 1750* kcmil	600 kcmil - 1750 kcmil	1.10 - 1.75 (28 - 44)	2.10 (53)
HVT-84-G	HVT-84-SG	1500 kcmil - 2500* kcmil	2000 kcmil - 2500 kcmil	1.60 - 2.45 (41 - 62)	2.75 (70)

Installed length: 10.5" (267mm)

Indoor	Outdoor Kit	Conductor Size (Min. - Max.)		Insulation Diameter (Min. - Max.)	Jacket O.D. (Max)
		15 kV (.175 - .220")			
HVT-151-G	HVT-151-SG	#4 AWG - 1/0 AWG		0.60-0.95 (15 - 24)	1.20 (30)
HVT-152-G	HVT-152-SG	2/0 AWG - 350 kcmil		0.80 - 1.25 (20 - 32)	1.50 (38)
HVT-153-G	HVT-153-SG	400 kcmil - 1000 kcmil		1.10 - 1.65 (28 - 42)	2.10 (53)
HVT-154-G	HVT-154-SG	1250 kcmil - 2500 kcmil		1.60 - 2.45 (41 - 62)	2.75 (70)

Installed Length 15.0" (381 mm)

Indoor	Outdoor Kit	Conductor Size (Min. - Max.)		Insulation Diameter (Min. - Max.)	Jacket O.D. (Max)
		25 kV (0.260")			
HVT-252-G	HVT-252-SG	#2 AWG - 250 kcmil		0.80 - 1.25 (20 - 32)	1.50 (38)
HVT-253-G	HVT-253-SG	300 kcmil - 750 kcmil		1.10 - 1.70 (28 - 43)	2.10 (53)
HVT-254-G	HVT-254-SG	1000 kcmil - 1750 kcmil		1.60 - 2.45 (41 - 62)	2.75 (70)
HVT-255-G	HVT-255-SG	2000 kcmil - 2500 kcmil		2.05 - 3.00 (52 - 76)	3.45 (88)

Installed Length 28.0" (711 mm)

Indoor	Outdoor Kit	Conductor Size (Min. - Max.)		Insulation Diameter (Min. - Max.)	Jacket O.D. (Max)
		35 kV (0.345")			
HVT-352-G	HVT-352-SG	#1 AWG - 1/0 AWG		0.80 - 1.25 (20 - 32)	1.50 (38)
HVT-353-G	HVT-353-SG	2/0 AWG - 500 kcmil		1.10 - 1.85 (28 - 47)	2.10 (53)
HVT-354-G	HVT-354-SG	750 kcmil - 1750 kcmil		1.60 - 2.45 (41 - 62)	2.75 (70)
HVT-355-G	HVT-355-SG	2000 kcmil - 2500 kcmil		2.05 - 3.00 (52 - 76)	3.45 (88)

Installed Length 33.0" (838 mm)

TESTING CHART:

Product and Voltage Class Test Description	HVT-80 Series (5 - 8 kV)	HVT-150 Series (15 kV)	HVT-250 Series (25 kV)	HVT-350 Series (35 kV)
AC Withstand, 1 minute, (kV)	35	50	65	90
DC Withstand, 15 minutes (kV)	65	75	105	140
Partial Discharge (min. kV) for 3 pc or less	9	15.6	25.8	36
Impulse withstand 1.2 X 50 us, crest kV (outdoor)**	95	110	150	200
Impulse withstand 1.2 X 50 us, crest kV (indoor)**	80	95	125	150
Continuous current rating	Equal to cable ampacity	Equal to cable ampacity	Equal to cable ampacity	Equal to cable ampacity
Wet withstand, 10 seconds, kV rms	30	45	60	80
Dry withstand, 6 hours, kV rms	25	35	55	75

Note:

- * URD and LC kits are rated for 15 - 35 kV only; HVT-M kits for 5/8 - 25 kV only.
- ** HVT-250 meets requirements of 25/28 kV systems.
- ** Outdoor kits (-SJ, -SG, or -SLC designation) were tested with skirts (rain sheds). Indoor kits (-J, -G, -LC designation) do not contain skirts.

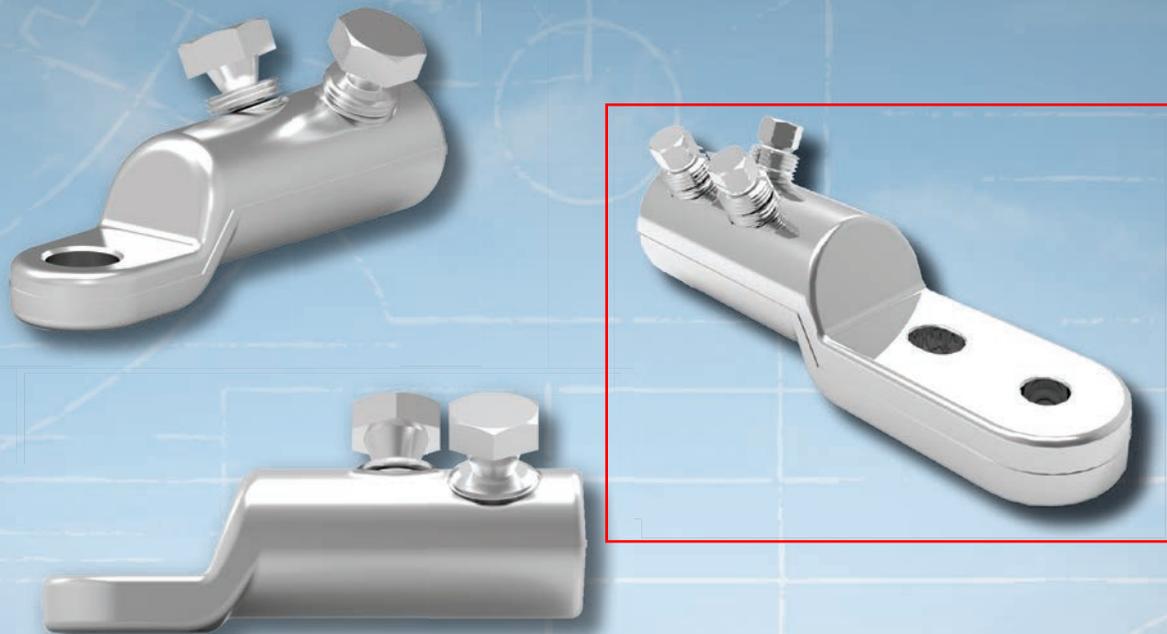
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MECHANICAL LUGS (BLMT)

FOR LOW AND MEDIUM VOLTAGE CABLE ACCESORIES UP TO 42 kV

KEY FEATURES

- Wide application range
- Compact design
- Can be used with almost every type of conductor and material
- Torque-controlled shear-head bolts guarantee a good electrical contact
- Easy installation with standard socket spanner
- Pre-engineered design for perfect fit in medium voltage cable accessories up to 42 kV
- Tested according to IEC 61238-1 class A

TE Connectivity's (TE) mechanical lugs are designed for use in low and medium voltage applications. Only three sizes cover conductor sizes from 25 mm² to 400 mm². All products consist of a tin-plated body, shear-head bolts and inserts for small conductor sizes.

Made of special aluminium alloy, these contact bolts are double shear-head bolts with hexagon heads. The bolts are treated with a highly lubricating agent. Contact bolts are irremovable once their heads have been sheared off. The Lug body is made of a high-tensile, tin-plated aluminium alloy. The internal surface of the conductor holes are grooved.

Lugs are suitable for outdoor and indoor applications and are available with different palm hole sizes. The bolted fitting featured herein was developed specifically for use in medium voltage cable accessories up to 42 kV. They may also be used in the 1 kV range.

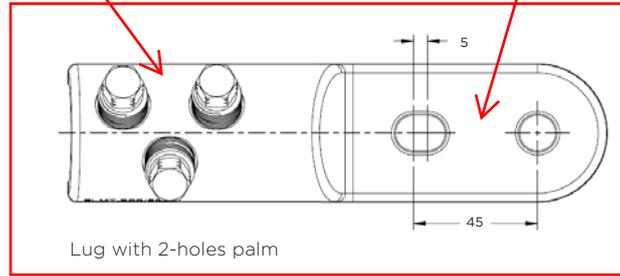
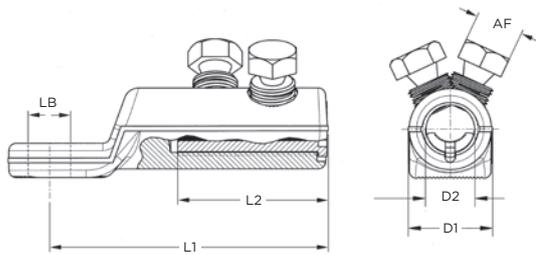
Before using mechanical lugs in cable accessories, confirm that they are suitable for the given application and if necessary consult the manufacturer.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Mechanical Lugs BLMT

三顆鎖斷螺絲

兩個電纜固定孔



PRODUCT SELECTION INFORMATION

Description	Cross Sectional Range (mm ²)	Palm Hole Diameter (mm)	Dimensions (mm)				Contact Bolts Quantity	Head Size AF (mm)
			L1	L2	D1	D2		
BLMT-25/95-13	25 - 95	13	60	30	24	12,8	1	13
BLMT-25/95-17	25 - 95	17	60	30	24	12,8	1	13
BLMT-35/150-13	35 - 150	13	86	35	28	15,8	1	17
BLMT-35/150-17	35 - 150	17	86	35	28	15,8	1	17
BLMT-95/240-13	95 - 240	13	112	60	33	20	2	19
BLMT-95/240-17	95 - 240	17	112	60	33	20	2	19
BLMT-120/300-13	120 - 300	13	115	65	37	24	2	22
BLMT-120/300-17	120 - 300	17	115	65	37	24	2	22
BLMT-150/400 mk2-13	150-400	13	122	80	42	25,5	3	13
BLMT-150/400 mk2-17	150-400	17	122	80	42	25,5	3	13
BLMT-150/400 mk2-21	150-400	21	122	80	42	25,5	3	13
BLMT-150/400 mk2-2x13	150-400	2x13	122	80	42	25,5	3	13
BLMT-500/630 mk2-13	500-630	13	125	70	50	33	3	13
BLMT-500/630 mk2-17	500-630	17	125	70	50	33	3	13
BLMT-500/630 mk2-21	500-630	21	125	70	50	33	3	13
BLMT-500/630 mk2-2x13	500-630	2x13	125	70	50	33	3	13
BLMT-800/1000-17	800-1000	17	153	85	60	40	4	13
BLMT-800/1000-21	800-1000	21	153	85	60	40	4	13
BLMT-800/1000-2x13	800-1000	2x13	153	85	60	40	4	13

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