

# ELECTRICAL TERMINALS AND CONNECTORS

เพิ่มความมั่นคงระบบไฟฟ้า ด้วยหางปลามาตรฐานสากล

MAKE THE PERFECT CONNECTION



Certificate ISO 9001:2015

# COMPANY PROFILE

## ประวัติบริษัท





## TERMINAL LUGS CO., LTD. บริษัท เทอร์มินอล ลักส์ จำกัด

Terminal Lugs Co., Ltd. had been specialized in electrical terminals that company was established in 1989. It has been 34 years old for hardworking and practicing in the long experience to developing brand T.LUG and be leader in Thailand. Our electrical terminal offers the high quality as part of standard of a wire range industries and international requirement that is the reasonable price.

In our strong experience. T.LUG is ready to serving you in any field of electrical terminals to offering the good job in every year. Furthermore we would like to take this opportunity to set up a long-term business to serving you a perfect connection designed and featured



# T.LUG®

# CONTENT

## สารบัญ

7



**RING TERMINAL**

หางปลากลมเปลือย

8



**SPADE TERMINAL**

หางปลาแฉกเปลือย

10



**INSULATED RING TERMINAL**

หางปลากลมหุ้มฉนวน

10



**INSULATED SPADE TERMINAL**

หางปลาแฉกหุ้มฉนวน

12



**CABLE LUGS**

หางปลารุ่นหนาทรงยุโรป (แบบท่อ)

13



**COPPPER CRIMP SLEEVE**

ข้อต่อสายแบบย้ำเปลือย (ยาวพิเศษ)

15



**MALE DISCONNECTS**

หางปลาหัวเสียบตัวผู้  
(แบบแบนหุ้มฉนวน)

15



**FEMALE DISCONNECTS**

หางปลาหัวเสียบตัวเมีย  
(แบบแบนหุ้มฉนวน)

15



**FULLY INSULATED  
FEMALE DISCONNECTOR**

หางปลาหัวเสียบตัวเมีย  
(แบบแบนหุ้มฉนวนเต็ม)

16



**BUTT SPLICES**

ข้อต่อสาย (แบบย้ำหุ้มฉนวน)

16



**BULLET TERMINAL**

หางปลาหัวเสียบตัวผู้  
(แบบกลมหุ้มฉนวน)

16



**BULLET SOCKETS**

หางปลาหัวเสียบตัวเมีย  
(แบบกลมหุ้มฉนวน)

18



**INSULATED PIN TERMINAL**

หางปลาหัวเสียบก้านไม้ขีด  
(แบบกลมหุ้มฉนวน)

18



**FLAT BLADE  
INSULATED TERMINAL**

หางปลาหัวเสียบกันไม้ขีด  
(แบบแบนหุ้มฉนวน)

18



**FLAT BLADE INSULATED  
TERMINAL**

หางปลาหัวเสียบกันไม้ขีด  
(แบบแบนยาวหุ้มฉนวน)

20



**CLOSED-END CONNECTORS**

หัวต่อสายหุ้มฉนวนรูปหมวก  
(แบบจางขุ่น)

20



**WIRE-NUT CONNECTORS**

ไวร์นัท สปริงเคลือบ หุ้มฉนวน

20



**QUICK SPLICES**

ตลับหนีบสาย หุ้มฉนวน

22



**CORD-END SLEEVE**

ข้อต่อย้ายปลายสายหุ้มฉนวน (แบบเดี่ยว)

22



**CORD-END TWIN SLEEVES**

ข้อต่อย้ายปลายสายหุ้มฉนวน (แบบคู่)

23



**NON-INSULATED  
CORD-END SLEEVE**

ข้อต่อย้ายปลายสาย(แบบเดี่ยวเปลือย)

25



**HIGH VOLTAGE  
ELECTRICAL TERMINALS  
SPLICE LONG BARREL**

ข้อต่อสายแรงสูงแบบย้ายเปลือย

26



**HIGH VOLTAGE ELECTRICAL  
TERMINALS SHORT BARREL**

หางปลาแรงสูงชนิดรูปตัว

27



**HIGH VOLTAGE ELECTRICAL  
TERMINALS LONG BARREL**

หางปลาแรงสูงชนิดรูปตัว

28



**HIGH VOLTAGE ANGLE 90°  
ELECTRICAL TERMINALS  
SHORT BARREL**

หางปลาแรงสูงชนิดรูปตัวมุม 90°

29



**HIGH VOLTAGE ANGLE 90°  
ELECTRICAL TERMINALS  
LONG BARREL**

หางปลาแรงสูงชนิดรูปตัวมุม 90°

30



**HIGH VOLTAGE OBTUSE  
ANGLE 135° ELECTRICAL  
TERMINALS SHORT BARREL**

หางปลาแรงสูงชนิดรูปตัวมุม 135°

31



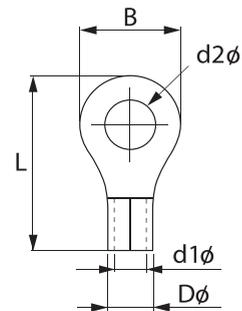
**HIGH VOLTAGE OBTUSE  
ANGLE 135° ELECTRICAL  
TERMINALS LONG BARREL**

หางปลาแรงสูงชนิดรูปตัวมุม 135°



**RING TERMINAL**  
**หางปลาถอมเปลือย**  
**(R TYPE)**

Material: Copper  
 Surface: Tin plated



Item No.	TIS Wire Size	DIMENSIONS (MM.)					AWG	DIN mm <sup>2</sup>	Q'TY in box
		d2Ø	B	L	DØ	d1Ø			
R 1.5-3	1.5	3.7	8.0	15.5	3.3	1.7	22-16	0.5-1.5	2,500
R 1.5-4		4.3							
R 1.5-5		5.3							
R 2.5-3	2.5	3.7	8.5	16.5	3.9	2.3	16-14	1.5-2.5	2,500
R 2.5-4		4.3							
R 2.5-5		5.3							
R 2.5-6		6.4							12.0
R 4-4	4	4.3	8.8	18.4	5.0	3.0	14-12	2.5-4	2,000
R 4-5		5.3							
R 4-6		6.4							
R 6-4	6	4.3	9.5	19.8	5.4	3.4	12-10	4-6	2,000
R 6-5		5.3							
R 6-6		6.4	12.0	23.0					1,000
R 6-8		8.4	15.0	27.5					
R 6-10		10.5							
R 10-6	10	6.4	12.0	23.8	6.9	4.5	8	10	1,000
R 10-8		8.4	15.0	30.0					800
R 10-10		10.5							
R 16-6	16	6.4	12.0	28.5	8.8	5.8	6	16	500
R 16-8		8.4	15.2	32.0					
R 16-10		10.5							
R 25-6	25	6.4	16.5	34.5	11.3	7.7	4	25	250
R 25-8		8.4							
R 25-10		10.5							
R 25-12		13.0	22.0	42.5					200
R 35-6	35	6.4	19.4	38.7	11.8	8.2	2	35	200
R 35-8		8.4							
R 35-10		10.5							
R 35-12		13.0							
R 50-8S	50	8.4	16.0	38.5	13.4	9.8	1/0	50	200
R 50-10S		10.5							
R 50-6		6.4	22.0	42.7					
R 50-8		8.4							
R 50-10		10.5							
R 50-12		13.0							
R 70-8	70	8.4	22.0	49.7	15.4	11.4	2/0	70	100
R 70-10		10.5							
R 70-12		13.0							
R 95-6	95	6.4	24.0	51.5	17.5	13.5	4/0	95	100
R 95-8		8.4							
R 95-10		10.5							
R 95-12		13.0							
R 120-8	120	8.4	27.0	54.4	19.4	15.0	250 MCM	120	50
R 120-10		10.5							
R 120-12		13.0							
R 120-14		15.0	32.0	68.5					
R 120-16		17.0							

Item No.	TIS Wire Size	DIMENSIONS (MM.)					AWG	DIN mm <sup>2</sup>	Q'TY in box
		d2∅	B	L	D∅	d1∅			
R 150-6	150	6.4	28.5	56.0	22.0	16.8	250-300 MCM	150	50
R 150-8		8.4							
R 150-10		10.5							
R 150-12		13.0							
R 185-12	185	13.0	36.0	67.5	26.8	20.3	300-500 MCM	185	25
R 185-14		15.0							
R 185-16		17.0							
R 185-18		19.0		81.0					
R 185-20		21.0							
R 240-12	240	13.0	38.5	70.3	29.0	22.0	350-500 MCM	240	25
R 240-14		15.0							
R 240-16		17.0							
R 240-18		19.0		86.7					
R 240-20		21.0							
R 300-12	300	13.0	43.2	72.0	33.0	25.0	600 MCM	300	20
R 300-14		15.0							
R 300-16		17.0							
R 300-18		19.0		91.0					
R 300-20		21.0							
R 400-12	400	13.0	50.4	88.3	38.4	29.3	800 MCM	400	10
R 400-14		15.0							
R 400-16		17.0							
R 400-18		19.0		105.5					
R 400-20		21.0							

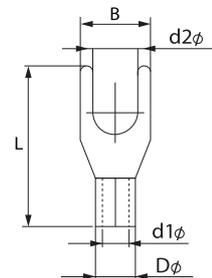
### SPADE TERMINAL

หางปลาเอกป็ล้อย

(Y TYPE)

Material: ETP-Copper

Surface: Tin plated



Item No.	TIS Wire Size	DIMENSIONS (MM.)					AWG	DIN mm <sup>2</sup>	Q'TY in box
		d2∅	B	L	D∅	d1∅			
Y 1.5-3S	1.5	3.3	5.7	16.0	3.3	1.7	22-16	0.5-1.5	2,500
Y 1.5-4S		4.3	6.4						
Y 1.5-5S		5.3	7.2						
Y 2.5-3S	2.5	3.3	5.7	16.0	3.9	2.3	16-14	1.5-2.5	2,500
Y 2.5-4S		4.3	6.4						
Y 2.5-5S		5.3	7.2						
Y 4-4	4	4.3	8.0	18.3	5.0	3.0	14-12	2.5-4	2,000
Y 4-5		5.3							
Y 6-4S	6	4.3	7.2	18.8	5.4	3.4	12-10	4-6	2,000
Y 6-5S		5.3	8.2						
Y 6-6		6.4	12.0	24.0					1,000



### INSULATED RING TERMINAL

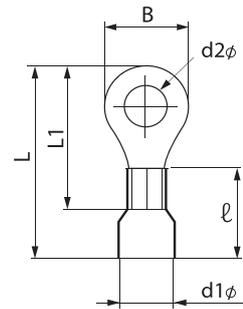
หางปลาแหวนหุ้มฉนวน

(RF TYPE)

Material: ETP-Copper

Surface: Tin plated

Insulation: PVC



Item No.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)						Color	AWG	DIN mm <sup>2</sup>	Q'TY in box
		d2φ	B	L	L1	l	D1φ				
RF 1.5-3	1.5	3.7	8.0	21.5	15.5	10.5	4.0	Red	22-16	0.5-1.5	2,000
RF 1.5-4		4.3									
RF 1.5-5		5.3									
RF 2.5-3	2.5	3.7	8.5	22.6	16.5	10.7	4.5	Blue	16-14	1.5-2.5	1,000
RF 2.5-4		4.3									
RF 2.5-5		5.3									
RF 2.5-6		6.4									
RF 4-4	4	4.3	8.8	25.2	18.4	13.5	6.0	Black	14-12	2.5-4	1,000
RF 4-5		5.3									
RF 4-6		6.4									12.0
RF 6-4	6	4.3	9.5	26.4	19.8	13.5	6.5	Yellow	12-10	4-6	500
RF 6-5		5.3									
RF 6-6		6.4	12.0	29.5	23.0						
RF 6-8		8.4	15.0	34.4	27.5						
RF 6-10		10.5									

### INSULATED SPADE TERMINAL

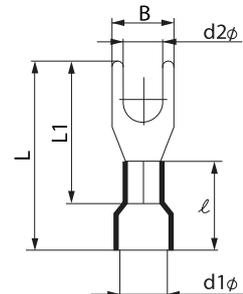
หางปลาแฉกหุ้มฉนวน

(YF TYPE)

Material: ETP-Copper

Surface: Tin plated

Insulation: PVC



Item No.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)						Color	AWG	DIN mm <sup>2</sup>	Q'TY in box
		d2φ	B	L	L1	l	D1φ				
YF 1.5-3S	1.5	3.3	5.7	22.0	16.0	10.5	4.0	Red	22-16	0.5-1.5	2,000
YF 1.5-4S		4.3	6.4								
YF 1.5-5S		5.3	7.2								
YF 2.5-3S	2.5	3.3	5.7	22.0	16.0	10.7	4.5	Blue	16-14	1.5-2.5	1,000
YF 2.5-4S		4.3	6.4								
YF 2.5-5S		5.3	7.2								
YF 4-4	4	4.3	8.0	25.5	18.3	13.5	6.0	Black	14-12	2.5-4	1,000
YF 4-5		5.3									
YF 6-4S	6	4.3	7.2	25.5	18.8	13.5	6.5	Yellow	12-10	4-6	500
YF 6-5S		5.3	8.2								
YF 6-6		6.4	12.0								



## CABLE LUGS

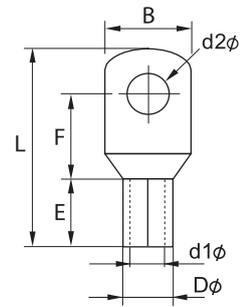
หางปลารุ่นหนาทรงยุโรป (แบบท่อ)

(CL TYPE)

Material: ETP-Copper tube

Cu 99% up

Surface: Tin plated



Item No.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)							AWG	DIN mm <sup>2</sup>	Q'TY in box
		d2Ø	d1Ø	DØ	B	E	F	L			
CL 10-6	10	6.4	4.5	6.2	10.0	9.0	10.0	25.0	8.0	10	1,000
CL 10-8		8.4			12.6						
CL 16-6	16	6.4	5.4	7.1	10.0	12.0	11.0	30.0	6.0	16	500
CL 16-8		8.4			12.6						
CL 25-6	25	6.4	6.8	8.8	12.6	12.0	11.0	30.0	4.0	25	400
CL 25-8		8.4			15.0			31.0			
CL 25-10		10.5									
CL 35-6	35	6.4	8.2	10.6	15.0	12.0	14.0	35.0	2.0	35	300
CL 35-8		8.4			18.6						
CL 35-10		10.5									
CL 35-12		13.0									
CL 50-8	50	8.4	9.5	12.4	18.0	16.0	17.0	43.0	1/0	50	200
CL 50-10		10.5			19.0						
CL 50-12		13.0									
CL 70-8	70	8.4	11.2	14.7	21.0	18.0	20.0	50.0	2/0	70	100
CL 70-10		10.5									
CL 70-12		13.0									
CL 95-8	95	8.4	13.5	17.4	25.5	20.0	22.0	55.0	4/0	95	80
CL 95-10		10.5									
CL 95-12		13.0									
CL 120-10	120	10.5	15.0	19.4	28.0	22.0	24.0	60.0	250 MCM	120	50
CL 120-12		13.0									
CL 120-14		15.0									
CL 120-16		17.0									
CL 150-10	*,**	10.5	16.5	21.2	30.5	26.0	27.0	69.0	300 MCM	150	50
CL 150-12	150	13.0									
CL 150-14	15.0										
CL 150-16	17.0										
CL 185-12	185	13.0	18.5	23.5	34.0	32.0	29.0	78.0	350 MCM	185	32
CL 185-14		15.0									
CL 185-16		17.0									
CL 240-12	240	13.0	21.5	27.0	39.5	38.0	34.0	92.0	500 MCM	240	20
CL 240-14		15.0									
CL 240-16		17.0									
CL 300-12	*	13.0	23.5	30.0	43.5	42.0	37.0	101.0	600 MCM	300	15
CL 300-14	300	15.0									
CL 300-16	17.0										
CL 300-18	19.0										
CL 400-14	*	15.0	27.0	35.0	50.8	44.0	44.0	114.0	800 MCM	400	7
CL 400-16	400	17.0									
CL 400-18	19.0										
CL 400-20	21.0										
CL 500-12	500	13.0	30.0	39.0	56.0	48.0	48.0	124.0	1000 MCM	500	5
CL 500-16		17.0									
CL 500-18		19.0									
CL 500-20		21.0									

หมายเหตุ (Remark): \* สามารถนำไปใช้ในงานติดตั้งสายไฟชนิดเกลียวธรรมดาและชนิดเกลียวอัดแน่น (Use for stranded and compact)

\*\* สามารถนำไปใช้กับสายไฟขนาด 185 มม<sup>2</sup> ชนิดเกลียวอัดแน่น (Use for compact 185mm<sup>2</sup>)

**COPPER CRIMP SLEEVE**

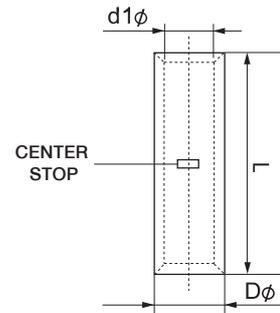
ข้อต่อสายแบบย้ำเปลือก(ยาวพิเศษ)

(CS TYPE)

Material: ETP-Copper tube

Cu 99% up

Surface: Tin plated



Item No.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)			AWG	DIN mm <sup>2</sup>	Q'TY in box
		d1∅	D∅	L			
CS 10	10	4.5	6.2	25	8	10	700
CS 16	16	5.4	7.1	33	6	16	500
CS 25	25	6.8	8.8	33	4	25	300
CS 35	35	8.2	10.6	38	2	35	200
CS 50	50	9.5	12.4	46	1/0	50	160
CS 70	70	11.2	14.7	53	2/0	70	100
CS 95	95	13.5	17.4	58	36617.0	95	60
CS 120	120	15.0	19.4	63	250 MCM	120	50
CS 150	*,** 150	16.5	21.2	72	300 MCM	150	35
CS 185	185	18.5	23.5	82	350 MCM	185	25
CS 240	240	21.5	27.0	96	500 MCM	240	20
CS 300	300	23.5	30.0	105	600 MCM	300	12
CS 400	400	27.0	35.0	105	800 MCM	400	8
CS 500	500	30.0	39.0	105	1000 MCM	500	7

หมายเหตุ (Remark): \* สามารถนำไปใช้ในงานติดตั้งสายไฟชนิดตีเกลียวธรรมดาและชนิดตีเกลียวอัดแน่น (Use for stranded and compact)

\*\* สามารถนำไปใช้กับสายไฟขนาด 185 มม<sup>2</sup> ชนิดตีเกลียวอัดแน่น (Use for compact 185mm<sup>2</sup>)



### MALE DISCONNECTS

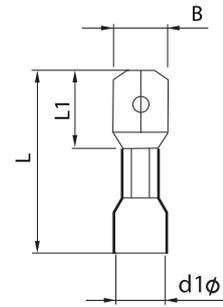
หางปลาหัวเสียบตัวผู้ (แบบแบนหัวฉนวน)

(V TYPE)

Material: Brass

Surface: Tin plated

Insulation: PVC



Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)				AWG	DIN mm <sup>2</sup>	Q'TY in box
			B	L	L1	d1φ			
V 1.5-7B	.250X.032" 6.35X0.8mm.	Red	6.3	20.7	11.0	3.4	22-16	0.5-1.5	1,000
V 2.5-7B		Blue	6.3	20.3	11.0	4.0	16-14	1.5-2.5	1,000
V 6-7B		Yellow	6.3	23.8	11.0	5.5	12-10	4-6	500

### FEMALE DISCONNECTS

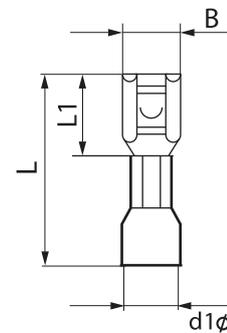
หางปลาหัวเสียบตัวเมีย (แบบแบนหัวฉนวน)

(V TYPE)

Material: Brass

Surface: Tin plated

Insulation: PVC



Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)				AWG	DIN mm <sup>2</sup>	Q'TY in box
			B	L	L1	d1φ			
V 1.5-7A	.250X.032" 6.35X0.8mm.	Red	6.8	20.5	11.0	3.5	22-16	0.5-1.5	1,000
V 2.5-7A		Blue	6.8	20.5	11.0	4.2	16-14	1.5-2.5	1,000
V 6-7A		Yellow	6.8	23.4	11.0	5.5	12-10	4-6	500

### FULLY INSULATED FEMALE DISCONNECTOR

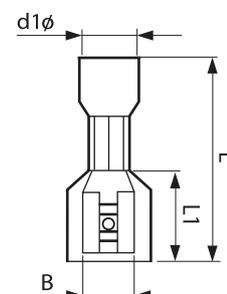
หางปลาหัวเสียบตัวเมีย (แบบหัวฉนวนเต็ม)

(PV TYPE)

Material: Brass

Surface: Tin plated

Insulation: PVC



Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)				AWG	DIN mm <sup>2</sup>	Q'TY in box
			B	L	L1	d1φ			
PV 1.5-7A	.250X.032" 6.35X0.8mm.	Red	6.7	22.0	12.2	3.7	22-16	0.5-1.5	500
PV 2.5-7A		Blue	6.7	22.2	12.2	4.4	16-14	1.5-2.5	500
PV 6-7A		Yellow	6.7	24.2	12.2	5.5	12-10	4-6	500

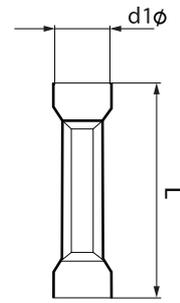
### BUTT SPLICE

ข้อต่อสาย (แบบย้ำหัวฉนวน)  
(BF TYPE)

Material: Copper

Surface: Tin plated

Insulation: PVC



Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)		AWG	DIN mm <sup>2</sup>	Q'TY in box
			d1φ	L			
BF 1.5	1.5	Red	4.0	26.2	22-16	0.5-1.5	500
BF 2.5	2.5	Blue	4.5	26.5	16-14	1.5-2.5	500
BF 6	6.0	Yellow	6.0	26.5	12-10	4-6	500

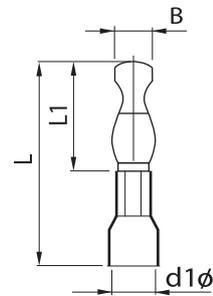
### BULLET TERMINAL

หางปลาหัวเสียบตัวผู้ (แบบกลมหัวฉนวน)  
(F TYPE)

Material: Brass

Surface: Tin plated

Insulation: PVC



Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)				AWG	DIN mm <sup>2</sup>	Q'TY in box
			B	L	L1	d1φ			
F 1.5 B	1.5	Red	4.0	21.0	11.0	3.3	0.5-1.5	1,000	
F 2.5 B	2.5	Blue	5.0	21.0	11.0	4.3	1.5-2.5	1,000	
F 6 B	6	Yellow	5.0	23.0	11.0	5.5	4-6	500	

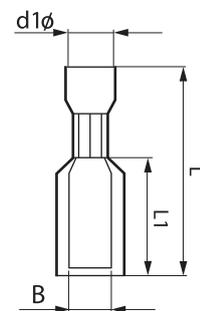
### BULLET SOCKETS

หางปลาหัวเสียบตัวเมีย (แบบกลมหัวฉนวน)  
(F TYPE)

Material: Brass

Surface: Tin plated

Insulation: PVC



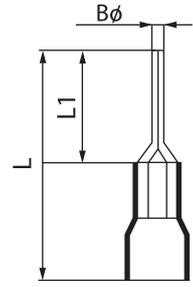
Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)				AWG	DIN mm <sup>2</sup>	Q'TY in box
			B	L	L1	d1φ			
F 1.5 A	1.5	Red	3.9	23.0	13.5	3.3	0.5-1.5	500	
F 2.5 A	2.5	Blue	4.9	23.5	13.5	4.5	1.5-2.5	500	
F 6 A	6	Yellow	4.9	23.5	13.5	5.5	4-6	500	



### INSULATED PIN TERMINAL

หางปลาหัวเสียบกันไม้ชนิด (แบบกลมหัวฉนวน)  
( PIN TYPE)

Material: Copper  
Surface: Tin plated  
Insulation: PVC

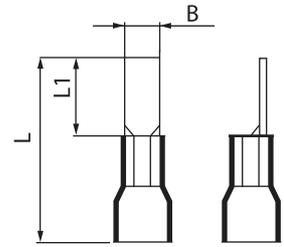


Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)			AWG	DIN mm <sup>2</sup>	Q'TY in box
			Bø	L	L1			
PIN 1.5 AF	1.5	Red	1.9	22.0	12.2	22-16	0.5-1.5	1,000
PIN 2.5 AF	2.5	Blue	1.9	22.0	12.5	16-14	1.5-2.5	1,000
PIN 6 AF	6	Yellow	2.7	27.5	14.3	12-10	4-6	500

### FLAT BLADE INSULATED TERMINAL

หางปลาหัวเสียบกันไม้ชนิด (แบบแบนหัวฉนวน)  
( PIN TYPE)

Material: Copper  
Surface: Tin plated  
Insulation: PVC

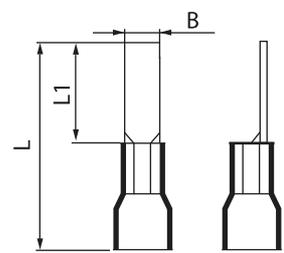


Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)			AWG	DIN mm <sup>2</sup>	Q'TY in box
			B	L	L1			
PIN 110 FB	1.5	Red	2.3	20.0	10.0	22-16	0.5-1.5	1,000
PIN 210 FB	2.5	Blue	2.3	20.5	10.5	16-14	1.5-2.5	1,000
PIN 510 FB	6	Yellow	2.8	23.5	10.5	12-10	4-6	500

### FLAT BLADE INSULATED TERMINAL

หางปลาหัวเสียบกันไม้ชนิด (แบบแบนยาวหัวฉนวน)  
( PIN TYPE)

Material: Copper  
Surface: Tin plated  
Insulation: PVC



Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)			AWG	DIN mm <sup>2</sup>	Q'TY in box
			B	L	L1			
PIN 118 FB	1.5	Red	2.2	28.5	18.5	22-16	0.5-1.5	1,000
PIN 218 FB	2.5	Blue	2.2	28.5	18.5	16-14	1.5-2.5	1,000
PIN 518 FB	6	Yellow	4.5	31.3	18.2	12-10	4-6	500



### CLOSED-END CONNECTORS

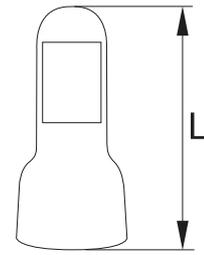
หัวต่อสายหุ้มฉนวนรูปหมวก (แบบจางพุ่น)

( N TYPE)

Material: Copper

Surface: Tin plated

Insulation: Polyamide



Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)		AWG	DIN mm <sup>2</sup>	Q'TY in box
			L				
N 1.5	0.5-1.5	White	18.1		22-16	0.5-1.5	1,000
N 2.5	1.5-2.5		20.1		16-14	1.5-2.5	500
N 6	4-6		24.8		12-10	4-6	250
N 10	10		27.5		8	10	250

### WIRE-NUT CONNECTORS

ไวร์นัท สปริงเหล็ย หุ้มฉนวน

( P TYPE)

Material: Brass

Surface: Square spring steel wire

Insulation: P.P.



ขดลวดสปริงภายในเป็นส่วนเหล็ย  
ช่วยล็อกและรัดสายให้แน่นขึ้น  
Inner assembled with square  
spring steel wires

Item No.	TIS Wire Size mm <sup>2</sup>	Color	AWG	DIN mm <sup>2</sup>	Q'TY in box
P 1-11	0.5-1.5	Gray	22-16	0.5-1.5	1,000
P 2-22	0.5-2.5	Blue	22-14	0.5-2.5	500
P 3-33	0.5-2.5	Orange	22-14	0.5-2.5	400
P 4-44	1-4	Yellow	18-12	1-4	250
P 6-66	1-6	Red	18-10	1-6	200

### QUICK SPLICES

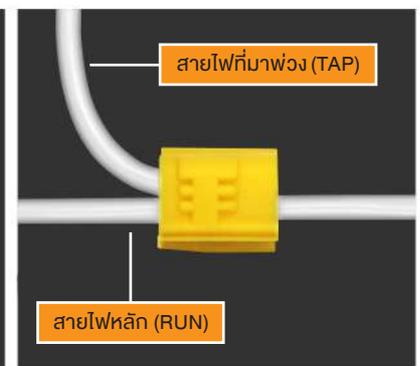
ตลับหนีบสาย หุ้มฉนวน

( SS TYPE)

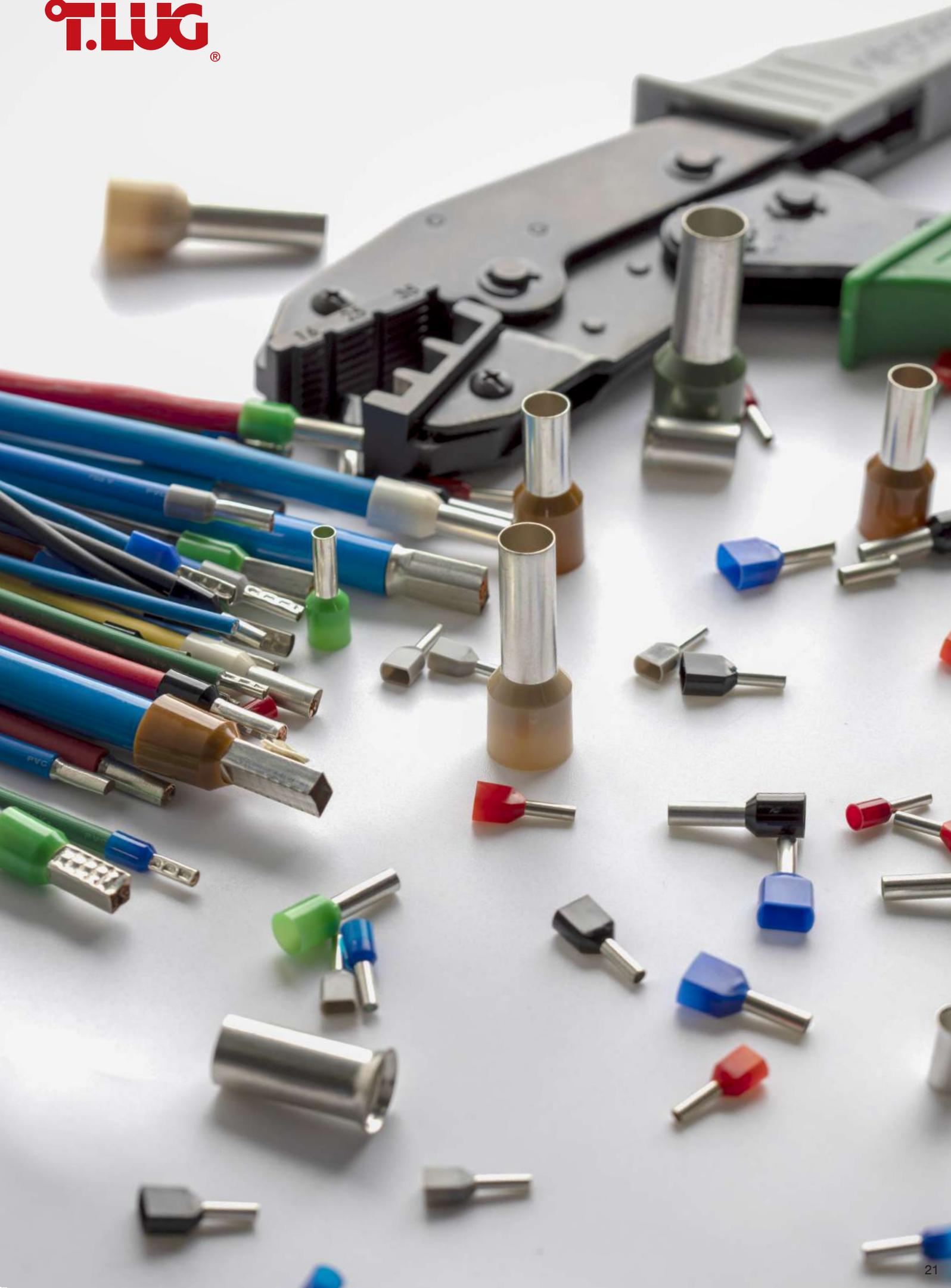
Material: Brass

Surface: Tin plated

Insulation: P.P.



Item No.	TIS Wire Size mm <sup>2</sup>	Color	AWG	DIN mm <sup>2</sup>	Q'TY in box
SS 1.5	1.5	Red	22-16	0.5-1.5	200
SS 2.5	2.5	Blue	16-14	1.5-2.5	200
SS 4	6	Yellow	12-10	4-6	100



### CORD-END SLEEVE

ข้อต่อท้ายปลายสายหุ้มฉนวน (แบบเดี่ยว)

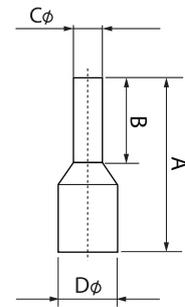
(CE TYPE)

Material: Copper

Surface: Tin plated

Insulation: Polyamide

(Nylon 6-6)



Item No.	TIS Wire Size mm <sup>2</sup>	Color			DIMENSIONS (MM.)				AWG	DIN mm <sup>2</sup>	Q'TY in box
		(T) French	(W) German	(D) Din	A	B	CØ	DØ			
CE 0.5-6	0.5	White	Orange	White	12.0	6.0	1.3	3.2	22	0.5	2,000
CE 0.5-8					14.0	8.0					
CE 0.5-10					16.0	10.0					
CE 0.75-6	0.75	M.Blue	White	Gray	12.0	6.0	1.5	3.4	20	0.75	2,000
CE 0.75-8					14.5	8.0					
CE 0.75-10					16.0	10.0					
CE 0.75-12					18.0	12.0					
CE 1.0-6	1	Red	Yellow	Red	12.0	6.0	1.7	3.6	18	1	2,000
CE 1.0-8					14.8	8.0					
CE 1.0-10					16.0	10.0					
CE 1.0-12					18.0	12.0					
CE 1.5-8	1.5	Black	d.Red	Black	15.0	8.0	2.0	4.1	16	1.5	2,000
CE 1.5-10					17.0	10.0					
CE 1.5-12					18.0	12.0					
CE 2.5-8	2.5	Gray	Blue	Blue	15.5	8.0	2.5	4.8	14	2.5	2,000
CE 2.5-10					17.2	10.0					
CE 2.5-12					18.0	12.0					
CE 4.0-10	4	Orange	Gray	Gray	18.0	10.0	3.2	5.5	12	4	2,000
CE 4.0-12					20.0	12.0					
CE 4.0-18					26.0	18.0					
CE 6.0-12	6	Green	Black	Yellow	21.2	12.0	3.9	7	10	6	1,000
CE 6.0-18					26.0	18.0					
CE 10-12	10	Brown	Ivory	Red	23.3	12.0	4.9	8.4	8	10	500
CE 10-18					28.0	18.0					
CE 16-12	16	Ivory	Green	Blue	23.0	12.0	6.2	9.5	6	16	500
CE 16-18					28.0	18.0					
CE 25-16	25	Black	Brown	Yellow	30.5	15.5	7.7	12	4	25	200
CE 25-22					35.0	22.0					
CE 35-16	35	Red	Beige	Red	31.0	16.0	8.7	13.5	2	35	200
CE 35-25					39.8	25.0					100
CE 50-20	50	Blue	Olive	Blue	36.0	20.0	10.9	16	1/0	50	100
CE 50-25					40.0	25.0					

### CORD-END TWIN SLEEVE

ข้อต่อท้ายปลายสายหุ้มฉนวน (แบบคู่)

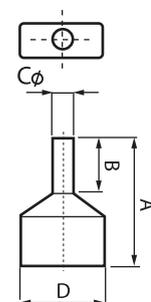
(CE TYPE)

Material: Copper

Surface: Tin plated

Insulation: Polyamide

(Nylon 6-6)



Item No.	TIS Wire Size mm <sup>2</sup>	Color	DIMENSIONS (MM.)				AWG	DIN mm <sup>2</sup>	Q'TY in box
			A	B	CØ	D			
CE 0.75-8x2	0.75	Gray	15.3	8.0	2.1	5.5	20	0.75	1,000
CE 1.0-8x2	1	Red	15.8	8.0	2.0	6.2	18	1	1,000
CE 1.5-8x2	1.5	Black	16.8	8.0	2.6	7.5	16	1.5	1,000
CE 2.5-10x2	2.5	Blue	19.5	10.0	2.9	8.7	14	2.5	1,000

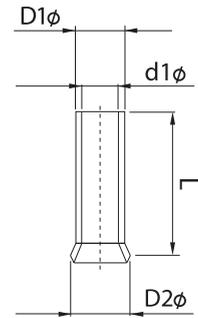
## NON-INSULATED CORD-END SLEEVE

ข้อต่อท้ายปลายสาย (แบบเดี่ยวเปลือย)

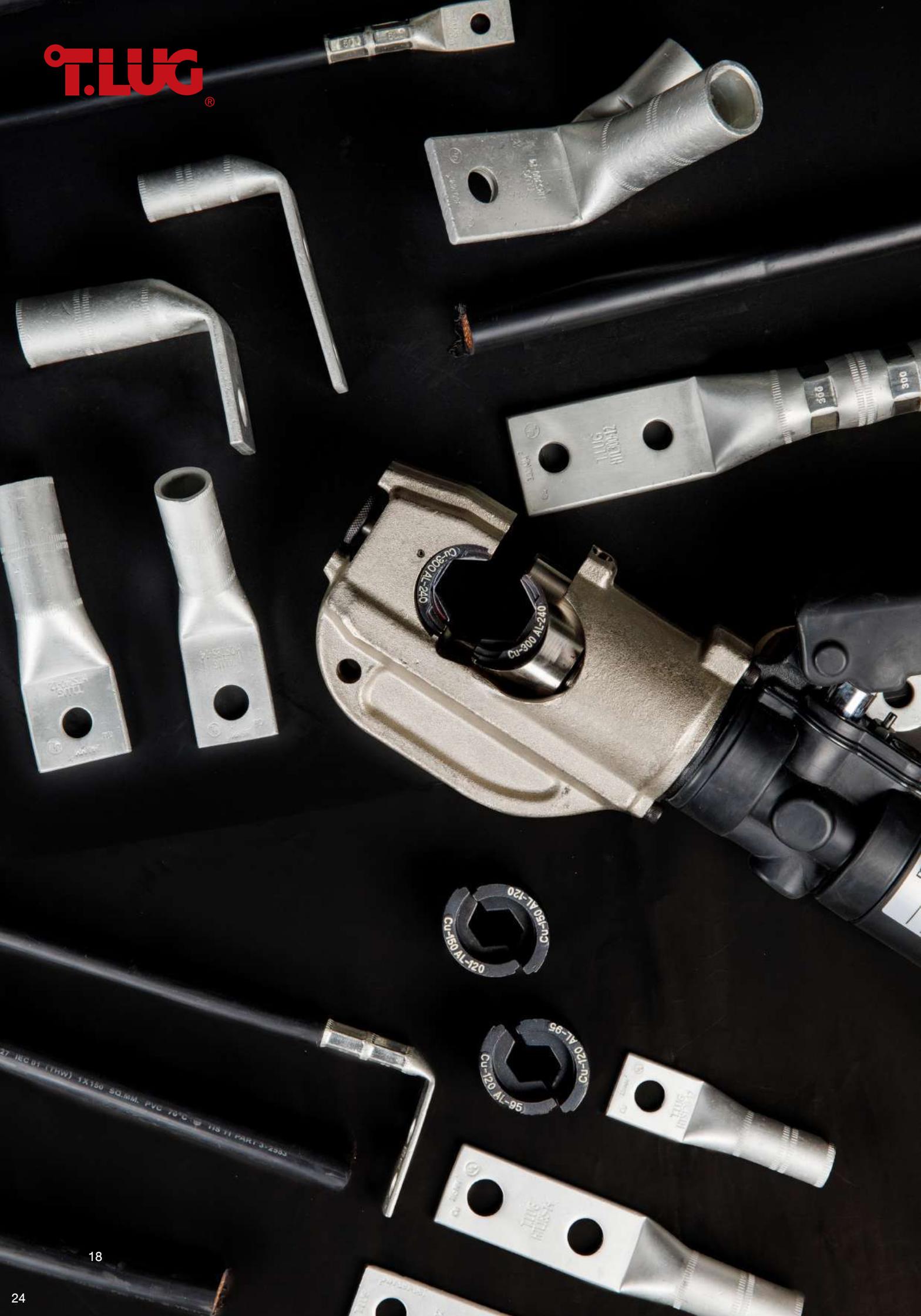
(CN TYPE)

Material: Copper

Surface: Tin plated



Item No.	TIS Wire Size mm <sup>2</sup>	(DIMENSIONS (MM.))				AWG	DIN mm <sup>2</sup>	Q'TY in box
		L	d1Ø	D Ø	D2Ø			
CN 0.5-6	0.5	6.0	1	1.3	2.1	22	0.5	2,000
CN 0.5-8		8.0						
CN 0.5-10		10.0						
CN 0.75-6	0.75	6.0	1.2	1.5	2.3	20	0.75	2,000
CN 0.75-8		8.0						
CN 0.75-10		10.0						
CN 0.75-12		12.0						
CN 1.0-6	1	6.0	1.4	1.7	2.5	18	1	2,000
CN 1.0-8		8.0						
CN 1.0-10		10.0						
CN 1.0-12		12.0						
CN 1.5-8	1.5	8.0	1.7	2.0	2.8	16	1.5	2,000
CN 1.5-10		10.0						
CN 1.5-12		12.0						
CN 2.5-8	2.5	8.0	2.2	2.5	3.4	14	2.5	2,000
CN 2.5-10		10.0						
CN 2.5-12		12.0						
CN 4.0-10	4	10.0	2.8	3.2	4.0	12	4	2,000
CN 4.0-12		12.0						
CN 4.0-18		18.0						
CN 6.0-12	6	12.0	3.5	3.9	4.7	10	6	2,000
CN 6.0-18		18.0						
CN 10-12	10	12.0	4.5	4.9	5.8	8	10	1,000
CN 10-18		18.0						
CN 16-12	16	12.0	5.8	6.2	7.5	6	16	1,000
CN 16-18		18.0						
CN 25-16	25	16.0	7.3	7.7	9.5	4	25	500
CN 25-22		22.0						
CN 35-16	35	16.0	8.3	8.7	11.0	2	35	400
CN 35-25		25.0						
CN 50-20	50	20.0	10.3	10.9	13.0	1/0	50	200
CN 50-25		24.7						
CN 70-22	70	22.0	13.5	14.3	15.3	2/0	70	100
CN 70-25		25.0						
CN 95-25	95	25.0	14.7	15.5	16.6	3/0	95	100
CN 95-32		32.0						
CN 120-30	120	30.0	16.7	17.6	18.6	4/0	120	80
CN 120-32		32.0						
CN 120-34		34.0						
CN 150-32	150	32.0	19.5	20.5	21.5	250-300 MCM	150	25
CN 150-38		38.0						



## HIGH VOLTAGE (MV.,HV.) ELECTRICAL TERMINALS SPLICE LONG BARREL

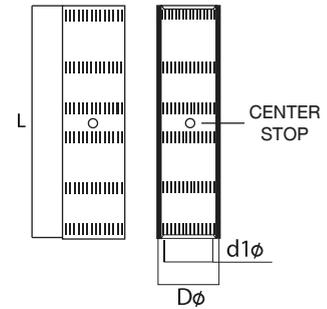
### ข้อต่อสายแรงสูงแบบยาวเปลือก

Permitted crimp in larger size to assure a strong full tension and high conductive suitable to connect cable size from 10-500 SQ.MM. 12-35 KV.

(HTSL TYPE)

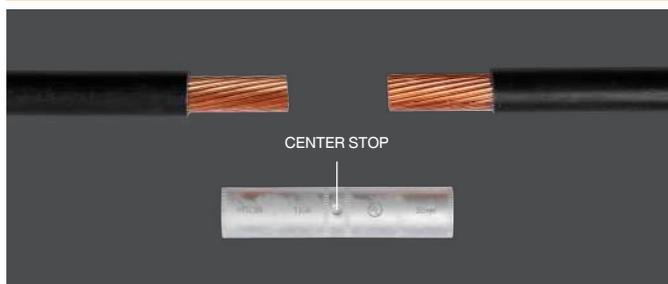
Material: ETP-Copper tube Cu 99% UP

Surface: Tin plated



Item No.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)			Q'TY in box
		d1 Ø	D Ø	L	
HTSL 10	10	4.5	6.2	48	100
HTSL 16	16	5.4	7.1	55	100
HTSL 25	25	6.8	8.8	62	100
HTSL 35	35	8.2	10.6	70	50
HTSL 50	50	9.5	12.4	75	50
HTSL 70	70	11.2	14.7	75	40
HTSL 95	95	13.5	17.4	80	40
HTSL 120	120	15.0	19.4	85	20
HTSL 150	*,** 150	16.5	21.2	105	20
HTSL 185	185	18.5	23.5	105	10
HTSL 240	240	21.5	27.0	118	10
HTSL 300	300	23.5	30.0	140	8
HTSL 400	400	27.0	35.0	140	5
HTSL 500	500	30.0	39.0	155	5

### ขั้นตอนการย้ายสลิปต่อสาย (ให้ย้ายจากในสุดไปปลายสุดแต่ละข้าง)



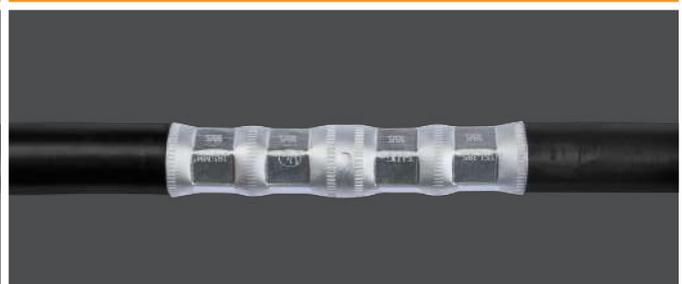
1.เตรียมหางปลาและสายไฟ



2.ย้ายสายจากด้านใน



3.ย้ายสายที่ปลายสลิป



4.ย้ายอีกฝั่งในลักษณะเดียวกัน

หมายเหตุ (Remark): \* สามารถนำไปใช้ในงานติดตั้งสายไฟชนิดตีเกลียวธรรมดาและชนิดตีเกลียวอัดแน่น (Use for stranded and compact)

\*\* สามารถนำไปใช้กับสายไฟขนาด 185 มม<sup>2</sup> ชนิดตีเกลียวอัดแน่น (Use for compact 185mm<sup>2</sup>)

# HIGH VOLTAGE (MV.,HV.) ELECTRICAL TERMINALS

## SHORT BARREL ONE HOLE

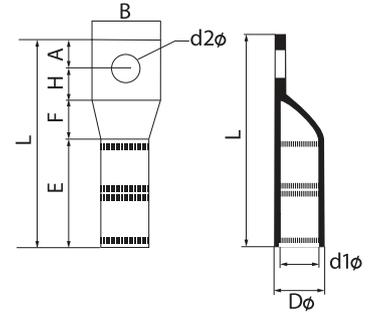
### หางปลาแรงสูงชนิดรูเดี่ยว

Has provide mechanical strength for heavyduty applications. Suitable for use with cable size from 10-500 SQ.mm.12-35 KV.

(HTS TYPE)

Material: ETP-Copper tube Cu 99% UP

Surface: Tin plated



Item No.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)									Q'TY in box
		d2φ	d1φ	Dφ	A	B	E	F	H	L	
HTS 10-6	10	6.4	4.5	6.2	9.5	12.0	21.5	7.4	11.5	49.9	100
HTS 10-8		8.4									
HTS 16-6	16	6.4	5.4	7.1	9.5	12.0	25.0	7.4	11.5	53.4	100
HTS 16-8		8.4									
HTS 25-6	25	6.4	6.8	8.8	11.5	15.0	28.5	7.4	13.5	60.9	100
HTS 25-8		8.4									
HTS 25-10		10.5									
HTS 35-6	35	6.4	8.2	10.6	11.5	17.0	32.0	8.0	13.5	65.0	50
HTS 35-8		8.4									
HTS 35-10		10.5									
HTS 50-8	50	8.4	9.5	12.4	13.5	19.0	35.0	10.9	15.5	74.9	40
HTS 50-10		10.5									
HTS 50-12		13.0									
HTS 70-8	70	8.4	11.2	14.7	13.5	21.0	35.0	10.9	17.5	76.9	40
HTS 70-10		10.5									
HTS 70-12		13.0									
HTS 95-8	95	8.4	13.5	17.4	13.5	25.5	38.0	15.8	17.5	84.8	20
HTS 95-10		10.5									
HTS 95-12		13.0									
HTS 120-10	120	10.5	15.0	19.4	14.5	28.0	40.0	18.8	18.5	91.8	20
HTS 120-12		13.0									
HTS 120-14		15.0									
HTS 150-12	*,**	13.0	16.5	21.2	16.5	30.5	50.0	19.8	20.5	106.8	20
HTS 150-14	150	15.0									
HTS 150-16		17.0									
HTS 185-12	185	13.0	18.5	23.5	16.5	34.0	50.0	19.8	20.5	106.8	10
HTS 185-14		15.0									
HTS 185-16		17.0									
HTS 240-12	240	13.0	21.5	27.0	16.5	39.5	56.0	24.8	20.5	117.8	10
HTS 240-14		15.0									
HTS 240-16		17.0									
HTS 300-12	300	13.0	23.5	30.0	20.0	43.5	67.0	26.8	24.0	137.8	10
HTS 300-14		15.0									
HTS 300-16		17.0									
HTS 400-12	400	13.0	27.0	35.0	23.0	50.8	67.0	26.8	27.0	143.8	5
HTS 400-14		15.0									
HTS 400-16		17.0									
HTS 500-12	500	13.0	30.0	39.0	23.0	56.0	75.0	33.8	27.0	158.8	5
HTS 500-14		15.0									
HTS 500-16		17.0									

หมายเหตุ (Remark): \* สามารถนำไปใช้ในงานติดตั้งสายไฟชนิดตีเกลียวธรรมดาและชนิดตีเกลียวอัดแน่น (Use for stranded and compact)

\*\* สามารถนำไปใช้กับสายไฟขนาด 185 มม<sup>2</sup> ชนิดตีเกลียวอัดแน่น (Use for compact 185mm<sup>2</sup>)

# HIGH VOLTAGE (MV.,HV.) ELECTRICAL TERMINALS

## LONG BARREL TWO HOLES

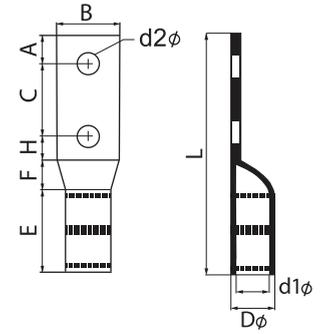
### หางปลาแรงสูงชนิดรูคู่

Permitted crimp in larger size for additional assurance on heavy duty load suitable for terminating cable size from 10-500 SQ.MM. 12-35 KV.

(HTL TYPE)

Material: ETP-Copper tube Cu 99% UP

Surface: Tin plated



Item No.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)										Q'TY in box
		d2	d1Ø	DØ	A	B	C*	E	F	H	L	
HTL 10-6	10	6.4	4.5	6.2	9.5	12.0	15.8	21.5	7.4	11.5	65.7	100
HTL 10-8		8.4										
HTL 16-6	16	6.4	5.4	7.1	9.5	12.0	15.8	25.0	7.4	11.5	69.2	100
HTL 16-8		8.4										
HTL 25-6	25	6.4	6.8	8.8	11.5	15.0	15.8	28.5	7.4	13.5	76.7	100
HTL 25-8		8.4										
HTL 25-10		10.5										
HTL 35-6	35	6.4	8.2	10.6	11.5	17.0	19.0	32.0	8.0	13.5	84.0	50
HTL 35-8		8.4										
HTL 35-10		10.5										
HTL 50-8	50	8.4	9.5	12.4	11.5	19.0	22.7	35.0	10.9	13.5	93.6	40
HTL 50-10		10.5										
HTL 50-12		13.0			13.5	44.4	15.5	119.3				
HTL 70-8	70	8.4	11.2	14.7	11.5	21.0	22.7	35.0	10.9	13.5	93.6	40
HTL 70-10		10.5										
HTL 70-12		13.0			13.5	44.4	17.5	121.3				
HTL 95-8	95	8.4	13.5	17.4	13.5	25.5	44.4	38.0	15.8	17.5	129.2	20
HTL 95-10		10.5										
HTL 95-12		13.0										
HTL 120-10	120	10.5	15.0	19.4	14.5	28.0	44.4	40.0	18.8	18.5	136.2	20
HTL 120-12		13.0										
HTL 120-14		15.0										
HTL 150-12	*,**	13.0	16.5	21.2	16.5	30.5	44.4	50.0	19.8	20.5	151.2	20
HTL 150-14	150	15.0										
HTL 150-16	17.0											
HTL 185-12	185	13.0	18.5	23.5	16.5	34.0	44.4	50.0	19.8	20.5	151.2	10
HTL 185-14		15.0										
HTL 185-16		17.0										
HTL 240-12	240	13.0	21.5	27.0	16.5	39.5	44.4	56.0	24.8	20.5	162.2	10
HTL 240-14		15.0										
HTL 240-16		17.0										
HTL 300-12	300	13.0	23.5	30.0	16.5	43.5	44.4	67.0	26.8	20.5	175.2	10
HTL 300-14		15.0										
HTL 300-16		17.0										
HTL 400-12	400	13.0	27.0	35.0	16.5	50.8	44.4	67.0	26.8	20.5	175.2	5
HTL 400-14		15.0										
HTL 400-16		17.0										
HTL 500-12	500	13.0	30.0	39.0	16.5	56.0	44.4	75.0	33.8	20.5	190.2	2
HTL 500-14		15.0										
HTL 500-16		17.0										

หมายเหตุ (Remark): \* สามารถนำไปใช้ในงานติดตั้งสายไฟชนิดตีเกลียวธรรมดาและชนิดตีเกลียวอัดแน่น (Use for stranded and compact)

\*\* สามารถนำไปใช้กับสายไฟขนาด 185 มม<sup>2</sup> ชนิดตีเกลียวอัดแน่น (Use for compact 185mm<sup>2</sup>)

C\* ANSI HOLE

# HIGH VOLTAGE ANGLE 90° ELECTRICAL TERMINALS

## SHORT BARREL ONE HOLE

### หางปลาแรงสูงชนิดรูเดี่ยวมุม 90°

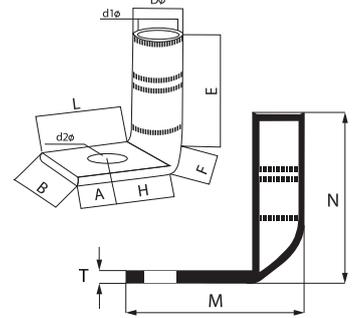
Suitable for use with cable size from 10-500 SQ.MM. In right angle position

(HRS TYPE)

Material: ETP-Copper tube

Cu 99% UP

Surface: Tin plated



ITEM NO.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)												Q'TY in box
		d2Ø	d1Ø	DØ	A	B	E	F	H	L	M	N	T	
HRS 10-6	10	6.4	4.5	6.2	9.5	12.0	21.5	7.4	16.5	26.0	32.2	29.5	1.1	100
HRS 10-8		8.4												
HRS 16-6	16	6.4	5.4	7.1	9.5	12.0	25.0	7.4	16.5	26.0	33.1	33.0	1.2	100
HRS 16-8		8.4												
HRS 25-6	25	6.4	6.8	8.8	11.5	15.0	28.5	7.4	18.5	30.0	38.8	36.7	1.6	100
HRS 25-8		8.4												
HRS 25-10		10.5												
HRS 35-6	35	6.4	8.2	10.6	11.5	17.0	32.0	8.0	21.5	33.0	43.6	41.0	2.0	50
HRS 35-8		8.4												
HRS 35-10		10.5												
HRS 50-8	50	8.4	9.5	12.4	13.5	19.0	35.0	10.9	23.5	37.0	49.4	47.2	2.5	40
HRS 50-10		10.5												
HRS 50-12		13.0												
HRS 70-8	70	8.4	11.2	14.7	13.5	21.0	35.0	10.9	27.5	41.0	55.7	47.7	3.5	20
HRS 70-10		10.5												
HRS 70-12		13.0												
HRS 95-8	95	8.4	13.5	17.4	13.5	25.5	38.0	15.8	27.5	41.0	58.4	55.6	3.6	10
HRS 95-10		10.5												
HRS 95-12		13.0												
HRS 120-10	120	10.5	15.0	19.4	14.5	28.0	40.0	18.8	28.5	43.0	62.4	61.0	4.3	10
HRS 120-12		13.0												
HRS 120-14		15.0												
HRS 150-12	150	13.0	16.5	21.2	16.5	30.5	50.0	19.8	30.5	47.0	68.2	72.1	4.5	10
HRS 150-14		15.0												
HRS 150-16		17.0												
HRS 185-12	185	13.0	18.5	23.5	16.5	34.0	50.0	19.8	30.5	47.0	70.5	72.2	4.8	10
HRS 185-14		15.0												
HRS 185-16		17.0												
HRS 240-12	240	13.0	21.5	27.0	16.5	39.5	56.0	24.8	35.5	52.0	79.0	83.6	5.5	5
HRS 240-14		15.0												
HRS 240-16		17.0												
HRS 300-12	300	13.0	23.5	30.0	20.0	43.5	67.0	26.8	44.0	64.0	94.0	97.0	6.3	5
HRS 300-14		15.0												
HRS 300-16		17.0												
HRS 400-12	400	13.0	27.0	35.0	23.0	50.8	67.0	26.8	47.0	70.0	105.0	97.8	7.9	2
HRS 400-14		15.0												
HRS 400-16		17.0												
HRS 500-12	500	13.0	32.0	39.0	23.0	56.0	75.0	33.8	47.0	70.0	109.0	113.3	8.9	1
HRS 500-14		15.0												
HRS 500-16		17.0												

หมายเหตุ (Remark): \* สามารถนำไปใช้ในงานติดตั้งสายไฟชนิดเกลียวธรรมดาและชนิดเกลียวอัดแน่น (Use for stranded and compact)

\*\* สามารถนำไปใช้กับสายไฟขนาด 185 มม<sup>2</sup> ชนิดเกลียวอัดแน่น (Use for compact 185mm<sup>2</sup>)

# HIGH VOLTAGE ANGLE 90° ELECTRICAL TERMINALS

## LONG BARREL TWO HOLES

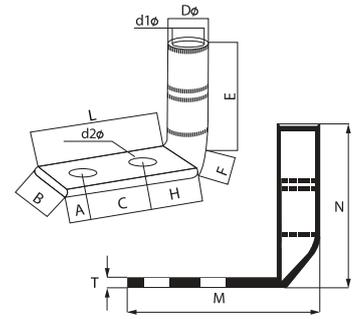
### หางปลาแรงสูงชนิดรูปมุม 90°

Suitable for use with cable size from 10-500 SQ.MM. In right angle position

(HRL TYPE)

Material: ETP-Copper tube Cu 99% UP

Surface: Tin plated



ITEM NO.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)													Q'TY in box
		d2Ø	d1Ø	DØ	A	B	C*	E	F	H	L	M	N	T	
HRL 10-6	10	6.4	4.5	6.2	9.5	12.0	15.8	21.5	7.4	16.5	41.8	48.0	29.5	1.1	100
HRL 10-8		8.4													
HRL 16-6	16	6.4	5.4	7.1	9.5	12.0	15.8	25.0	7.4	16.5	41.8	48.9	33.0	1.2	100
HRL 16-8		8.4													
HRL 25-6	25	6.4	6.8	8.8	11.5	15.0	15.8	28.5	7.4	18.5	45.8	54.6	36.7	1.6	100
HRL 25-8		8.4													
HRL 25-10		10.5													
HRL 35-6	35	6.4	8.2	10.6	11.5	17.0	19.0	32.0	8.0	21.5	52.0	62.6	41.0	2.0	50
HRL 35-8		8.4													
HRL 35-10		10.5													
HRL 50-8	50	8.4	9.5	12.4	11.5	19.0	22.7	35.0	10.9	21.5	55.7	68.1	47.2	2.5	40
HRL 50-10		10.5													
HRL 50-12		13.0			13.5		44.4			23.5	81.4	93.8			
HRL 70-8	70	8.4	11.2	14.7	11.5	21.0	22.7	35.0	10.9	23.5	57.7	72.4	47.7	3.5	20
HRL 70-10		10.5													
HRL 70-12		13.0			13.5		44.4			27.5	85.4	100.1			
HRL 95-8	95	8.4	13.5	17.4	13.5	25.5	44.4	38.0	15.8	27.5	85.4	102.8	55.6	3.6	10
HRL 95-10		10.5													
HRL 95-12		13.0													
HRL 120-10	120	10.5	15.0	19.4	14.5	28.0	44.4	40.0	18.8	28.5	87.4	106.8	61.0	4.3	10
HRL 120-12		13.0													
HRL 120-14		15.0													
HRL 150-12	*,**	13.0	16.5	21.2	16.5	30.5	44.4	50.0	19.8	30.5	91.4	112.6	72.1	4.5	10
HRL 150-14	150	15.0													
HRL 150-16		17.0													
HRL 185-12	185	13.0	18.5	23.5	16.5	34.0	44.4	50.0	19.8	30.5	91.4	114.9	72.2	4.8	10
HRL 185-14		15.0													
HRL 185-16		17.0													
HRL 240-12	240	13.0	21.5	27.0	16.5	39.5	44.4	56.0	24.8	35.5	96.4	123.4	83.6	5.5	5
HRL 240-14		15.0													
HRL 240-16		17.0													
HRL 300-12	300	13.0	23.5	30.0	16.5	43.5	44.4	67.0	26.8	40.5	101.4	131.4	97.0	6.3	5
HRL 300-14		15.0													
HRL 300-16		17.0													
HRL 400-12	400	13.0	27.0	35.0	16.5	50.8	44.4	67.0	26.8	40.5	101.4	136.4	97.8	7.9	2
HRL 400-14		15.0													
HRL 400-16		17.0													
HRL 500-12	500	13.0	30.0	39.0	16.5	56.0	44.4	75.0	33.8	40.5	101.4	140.4	113.3	8.9	1
HRL 500-14		15.0													
HRL 500-16		17.0													

หมายเหตุ (Remark): \* สามารถนำไปใช้ในงานติดตั้งสายไฟชนิดตีเกลียวธรรมดาและชนิดตีเกลียวอัดแน่น (Use for stranded and compact)

\*\* สามารถนำไปใช้กับสายไฟขนาด 185 มม<sup>2</sup> ชนิดตีเกลียวอัดแน่น (Use for compact 185mm<sup>2</sup>)

## HIGH VOLTAGE OBTUSE ANGLE 135° ELECTRICAL

### TERMINALS SHORT BARREL ONE HOLE

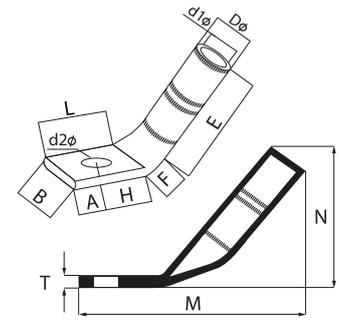
### หางปลาแรงสูงชนิดรูเดี่ยวมุม 135°

Suitable for use with cable size from 10-500 SQ.MM. In 135° angle position

(HOS TYPE)

Material: ETP-Copper tube Cu 99% UP

Surface: Tin plated



ITEM NO.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)												Q'TY in box
		d2ø	d1ø	Dø	A	B	E	F	H	L	M	N	T	
HOS 10-6	10	6.4	4.5	6.2	9.5	12.0	21.5	7.4	16.5	26.0	50.8	21.5	1.1	100
HOS 10-8		8.4												
HOS 16-6	16	6.4	5.4	7.1	9.5	12.0	25.0	7.4	16.5	26.0	53.9	24.1	1.2	100
HOS 16-8		8.4												
HOS 25-6	25	6.4	6.8	8.8	11.5	15.0	28.5	7.4	18.5	30.0	61.6	27.0	1.6	100
HOS 25-8		8.4												
HOS 25-10		10.5												
HOS 35-6	35	6.4	8.2	10.6	11.5	17.0	32.0	8.0	21.5	33.0	68.8	30.3	2.0	50
HOS 35-8		8.4												
HOS 35-10		10.5												
HOS 50-8	50	8.4	9.5	12.4	13.5	19.0	35.0	10.9	23.5	37.0	78.2	35.0	2.5	40
HOS 50-10		10.5												
HOS 50-12		13.0												
HOS 70-8	70	8.4	11.2	14.7	13.5	21.0	35.0	10.9	27.5	41.0	83.8	36.0	3.5	20
HOS 70-10		10.5												
HOS 70-12		13.0												
HOS 95-8	95	8.4	13.5	17.4	13.5	25.5	38.0	15.8	27.5	41.0	91.3	41.6	3.6	10
HOS 95-10		10.5												
HOS 95-12		13.0												
HOS 120-10	120	10.5	15.0	19.4	14.5	28.0	40.0	18.8	28.5	43.0	98.3	45.9	4.3	10
HOS 120-12		13.0												
HOS 120-14		15.0												
HOS 150-12	*,**	13.0	16.5	21.2	16.5	30.5	50.0	19.8	30.5	47.0	111.3	53.8	4.5	10
HOS 150-14	150	15.0												
HOS 150-16	17.0													
HOS 185-12	185	13.0	18.5	23.5	16.5	34.0	50.0	19.8	30.5	47.0	113.0	54.1	4.8	10
HOS 185-14		15.0												
HOS 185-16		17.0												
HOS 240-12	240	13.0	21.5	27.0	16.5	39.5	56.0	24.8	35.5	52.0	127.9	62.6	5.5	5
HOS 240-14		15.0												
HOS 240-16		17.0												
HOS 300-12	300	13.0	23.5	30.0	20.0	43.5	67.0	26.8	44.0	64.0	151.5	72.6	6.3	5
HOS 300-14		15.0												
HOS 300-16		17.0												
HOS 400-12	400	13.0	27.0	35.0	23.0	50.8	67.0	26.8	47.0	70.0	155.9	74.2	7.9	2
HOS 400-14		15.0												
HOS 400-16		17.0												
HOS 500-12	500	13.0	30.0	39.0	23.0	56.0	75.0	33.8	47.0	70.0	169.9	85.8	8.9	1
HOS 500-14		15.0												
HOS 500-16		17.0												

หมายเหตุ (Remark): \* สามารถนำไปใช้ในงานติดตั้งสายไฟชนิดตีเกลียวธรรมดาและชนิดตีเกลียวอัดแน่น (Use for stranded and compact)

\*\* สามารถนำไปใช้กับสายไฟขนาด 185 มม<sup>2</sup> ชนิดตีเกลียวอัดแน่น (Use for compact 185mm<sup>2</sup>)

# HIGH VOLTAGE OBTUSE ANGLE 135° ELECTRICAL TERMINALS LONG BARREL TWO HOLES

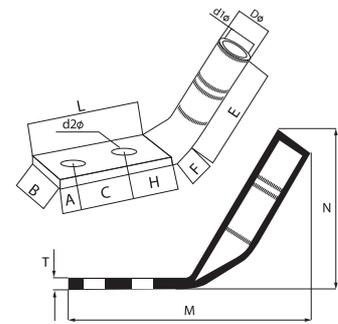
## หางปลาแรงสูงชนิดกรู๋มุม 135°

Suitable for use with cable size from 10-500 SQ.MM. In 135° angle position

(HOL TYPE)

Material: ETP-Copper tube Cu 99% UP

Surface: Tin plated



ITEM NO.	TIS Wire Size mm <sup>2</sup>	DIMENSIONS (MM.)													Q'TY in box
		d2ø	d1ø	Dø	A	B	C*	E	F	H	L	M	N	T	
HOL 10-6	10	6.4	4.5	6.2	9.5	12.0	15.8	21.5	7.4	16.5	41.8	66.6	21.5	1.1	100
HOL 10-8		8.4													
HOL 16-6	16	6.4	5.4	7.1	9.5	12.0	15.8	25.0	7.4	16.5	41.8	69.7	24.1	1.2	100
HOL 16-8		8.4													
HOL 25-6	25	6.4	6.8	8.8	11.5	15.0	15.8	28.5	7.4	18.5	45.8	77.4	27.0	1.6	100
HOL 25-8		8.4													
HOL 25-10		10.5													
HOL 35-6	35	6.4	8.2	10.6	11.5	17.0	19.0	32.0	8.0	21.5	52.0	87.8	30.3	2.0	50
HOL 35-8		8.4													
HOL 35-10		10.5													
HOL 50-8	50	8.4	9.5	12.4	11.5	19.0	22.7	35.0	10.9	21.5	55.7	96.9	35.0	2.5	40
HOL 50-10		10.5													
HOL 50-12		13.0			13.5	44.4	23.5	81.4	122.6						
HOL 70-8	70	8.4	11.2	14.7	11.5	21.0	22.7	35.0	10.9	23.5	57.7	100.6	36.0	3.5	20
HOL 70-10		10.5													
HOL 70-12		13.0			13.5	44.4	27.5	85.4	128.3						
HOL 95-8	95	8.4	13.5	17.4	13.5	25.5	44.4	38.0	15.8	27.5	85.4	135.7	41.6	3.6	10
HOL 95-10		10.5													
HOL 95-12		13.0													
HOL 120-10	120	10.5	15.0	19.4	14.5	28.0	44.4	40.0	18.8	28.5	87.4	142.7	45.9	4.3	10
HOL 120-12		13.0													
HOL 120-14		15.0													
HOL 150-12	*,**	13.0	16.5	21.2	16.5	30.5	44.4	50.0	19.8	30.5	91.4	155.7	53.8	4.5	10
HOL 150-14	150	15.0													
HOL 150-16	17.0														
HOL 185-12	185	13.0	18.5	23.5	16.5	34.0	44.4	50.0	19.8	30.5	91.4	157.4	54.1	4.8	10
HOL 185-14		15.0													
HOL 185-16		17.0													
HOL 240-12	240	13.0	21.5	27.0	16.5	39.5	44.4	56.0	24.8	35.5	96.4	172.3	62.6	5.5	5
HOL 240-14		15.0													
HOL 240-16		17.0													
HOL 300-12	300	13.0	23.5	30.0	16.5	43.5	44.4	67.0	26.8	40.5	101.4	188.9	72.6	6.3	5
HOL 300-14		15.0													
HOL 300-16		17.0													
HOL 400-12	400	13.0	27.0	35.0	16.5	50.8	44.4	67.0	26.8	40.5	101.4	193.5	74.2	7.9	2
HOL 400-14		15.0													
HOL 400-16		17.0													
HOL 500-12	500	13.0	30.0	39.0	16.5	56.0	44.4	75.0	33.8	40.5	101.4	205.9	85.8	8.9	1
HOL 500-14		15.0													
HOL 500-16		17.0													

หมายเหตุ (Remark): \* สามารถนำไปใช้ในงานติดตั้งสายไฟชนิดตีเกลียวธรรมดาและชนิดตีเกลียวอัดแน่น (Use for stranded and compact)

\*\* สามารถนำไปใช้กับสายไฟขนาด 185 มม<sup>2</sup> ชนิดตีเกลียวอัดแน่น (Use for compact 185mm<sup>2</sup>)

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190429-E304648  
**Report Reference** E304648-20131209  
**Issue Date** 2019-APRIL-29

**Issued to:** TERMINAL LUGS CO LTD  
110/6 Moo 2 Krungnont-Jongthanom Rd  
Mahasawat, Bangkruey, Nonthaburi 11130 THAILAND

**This certificate confirms that  
representative samples of**

WIRE CONNECTORS AND SOLDERING LUGS  
See Addendum Page.

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

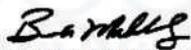
**Standard(s) for Safety:** UL 486A-486B, Wire Connectors

**Additional Information:** See the UL Online Certifications Directory at  
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/about/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190429-E304648  
**Report Reference** E304648-20131209  
**Issue Date** 2019-APRIL-29

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

USL – Non-insulated crimp on terminal connectors, One Hole, Series HTS, HRS, HOS;

Cat. No. H, followed by TS, RS or OS, followed by blank, followed by 10 or 16, followed by -6 or -8.

Cat. No. H, followed by TS, RS or OS, followed by blank, followed by 25 or 35, followed by -6, -8 or -10.

Cat. No. H, followed by TS, RS or OS, followed by blank, followed by 50, 70 or 95, followed by -8, -10 or -12.

Cat. No. H, followed by TS, RS or OS, followed by blank, followed by 120, followed by -10, -12 or -14.

Cat. No. H, followed by TS, RS or OS, followed by blank, followed by 150, followed by -12, -14 or -16, followed by blank, followed by CV185.

Cat. No. H, followed by TS, RS or OS, followed by blank, followed by 185, 240, 300, 400 or 500, followed by -12, -14 or -16.

USL – Non-insulated crimp on terminal connectors, Two Hole, Series HTL, HRL, HOL;

Cat. No. H, followed by TL, RL or OL, followed by blank, followed by 10 or 16, followed by -6 or -8.

Cat. No. H, followed by TL, RL or OL, followed by blank, followed by 25 or 35, followed by -6, -8 or -10.

Cat. No. H, followed by TL, RL or OL, followed by blank, followed by 50, 70 or 95, followed by -8, -10 or -12.

Cat. No. H, followed by TL, RL or OL, followed by blank, followed by 120, followed by -10, -12 or -14.

Cat. No. H, followed by TL, RL or OL, followed by blank, followed by 150, followed by -12, -14 or -16, followed by blank, followed by CV185.

Cat. No. H, followed by TL, RL or OL, followed by blank, followed by 185, 240, 300, 400 or 500, followed by -12, -14 or -16.

USL – Non-insulated crimp on terminal splices, Series CSL, HTSL;

Cat. No. CSL or HTSL, followed by blank, followed by 10, 16, 25, 35, 50, 70, 95, 120, 185, 240, 300, 400 or 500.

Cat. No. CSL or HTSL, followed by blank, followed by 150, followed by blank, followed by CV185.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190429-E304648  
**Report Reference** E304648-20070430  
**Issue Date** 2019-APRIL-29

**Issued to:** TERMINAL LUGS CO LTD  
110/6 Moo 2 Krungnont-Jongthanom Rd  
Mahasawat, Bangkruay, Nonthaburi 11130 THAILAND

**This certificate confirms that representative samples of** WIRE CONNECTORS AND SOLDERING LUGS  
See Addendum Page.

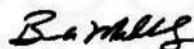
Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 486A-486B, Wire Connectors  
**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190429-E304648  
**Report Reference** E304648-20070430  
**Issue Date** 2019-APRIL-29

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

USL: Non-insulated crimp on terminal connectors, Cat. Nos. One Hole – CL 10-6, CL 10-8, CL 16-6, CL 16-8, CL 25-6, CL 25-8, CL 25-10, CL 35-6, CL 35-8, CL 35-10, CL 35-12, CL 50-8, CL 50-10, CL 50-12, CL 70-8, CL 70-10, CL 70-12, CL 95-8, CL 95-10, CL 95-12, CL 120-10, CL 120-12, CL 120-14, CL 120-16, CL 150-10 CV185, CL 150-12 CV185, CL 150-14 CV185, CL 150-16 CV185, CL 185-12, CL 185-14, CL 185-16, CL 240-12, CL 240-14, CL 240-16, CL 300-12 CV300, CL 300-14 CV300, CL 300-16 CV300, CL 300-18 CV300, CL 400-14 CV400, CL 400-16 CV400, CL 400-18 CV400, CL 400-20 CV400, CL 500-12, CL 500-16, CL 500-18, CL 500-20.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>





**TERMINAL LUGS CO.,LTD.**

110/6 Moo2, Krungnont-Jongthanom Road,Mahasawat,Bangkruey,Nontaburi 11130 (THAILAND)

Tel: (662) 985 2215-8 E-mail: info@terminal-lugs.com Export: E-mail: dianatlug@yahoo.com

**[www.terminal-lugs.com](http://www.terminal-lugs.com)**

