Distribution Overhead Construction Standard Section 7 Conductors, Cables, Connectors and Associated Fittings

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Authorisations

Action	Name and title	Date
Prepared by	Tetiana Knyzhka	08/05/2026
Reviewed by	Michael Healy	26/05/2026
Authorised by	Branden Papalia	28/05/2026
Review cycle	5 Years	

Responsibilities

This document is the responsibility of the Asset Management Systems and Standards Team, Tasmanian Networks Pty Ltd, ABN 24 167 357 299 (hereafter referred to as "TasNetworks").

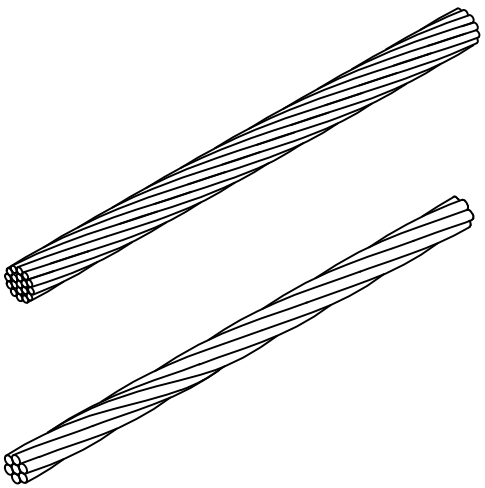
Please contact the Asset Management Systems and Standards Team with any queries related to this standard.

Record of revisions

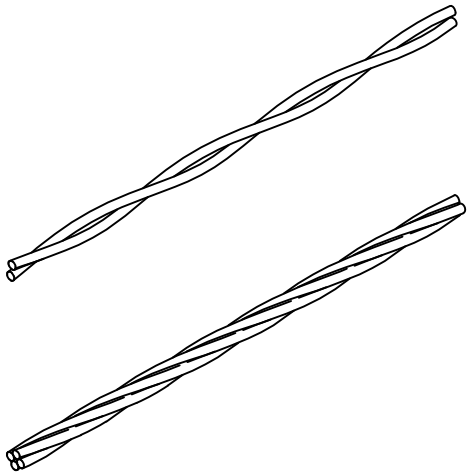
Version	Description	Date
3.0	Major update: Section fully revised to reflect current construction requirements.	28/05/2026

D-OHC-G100-SD-001	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. FITTINGS & CONNECTORS. GENERAL ASSEMBLIES
D-OHC-G101-SD-001	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. CURRENT CONDUCTORS & CABLES. FITTINGS & CONNECTORS
D-OHC-G101-SD-002	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. LEGACY ALUMINIUM CONDUCTORS. FITTINGS & CONNECTORS
D-OHC-G101-SD-003	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. LEGACY SC/GZ CONDUCTORS. FITTINGS & CONNECTORS
D-OHC-G101-SD-004	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. LEGACY COPPER CONDUCTORS. FITTINGS & CONNECTORS
D-OHC-G101-SD-005	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. COMMUNICATION CABLES
D-OHC-G102-SD-001	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. FITTINGS & CONNECTORS OVERVIEW
D-OHC-G102-SD-002	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. FITTINGS & CONNECTORS OVERVIEW CONT.
D-OHC-G103-SD-001	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. BARE – BARE CONDUCTOR. CONNECTOR TABLES
D-OHC-G103-SD-002	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. LVABC – LVABC. CONNECTOR TABLES
D-OHC-G103-SD-003	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. LVABC – BARE CONDUCTOR. CONNECTOR TABLES
D-OHC-G104-SD-001	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. BOLTED CONNECTORS. PARALLEL GROVE CLAMPS
D-OHC-G104-SD-002	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. BOLTED CONNECTORS. LIVE LINE CLAMPS
D-OHC-G104-SD-003	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. BOLTED CONNECTORS. LVABC PIERCING CONNECTORS
D-OHC-G105-SD-001	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. COMPRESSION FITTINGS. COMPRESSION CRIMP LUGS
D-OHC-G105-SD-002	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. COMPRESSION FITTINGS. ALUMINIUM COMPRESSION SLEEVES
D-OHC-G105-SD-003	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. COMPRESSION FITTINGS. COPPER COMPRESSION SLEEVES
D-OHC-G106-SD-001	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. POLE TOP FITTINGS. DETAILS AND DIMENSIONS
D-OHC-G107-SD-001	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. POLE TOP HAND TIES. HV INTERMEDIATE & SIDE TIES

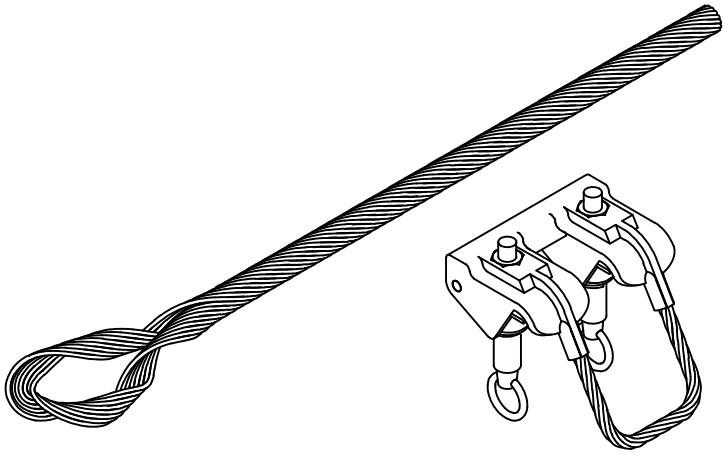
D-OHC-G107-SD-002	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. POLE TOP HAND TIES. HV LOOPS & LV TOP TIES
D-OHC-G107-SD-003	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. POLE TOP HAND TIES. LV SHACKLE INSULATOR TIES
D-OHC-G108-SD-001	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. LV CONDUCTOR SPREADER. DETAILS AND REQUIREMENTS
D-OHC-G109-SD-001	CONDUCTORS-CABLES-FITTINGS & CONNECTORS. CABLE DRUM SIZES. BARE AND LVABC



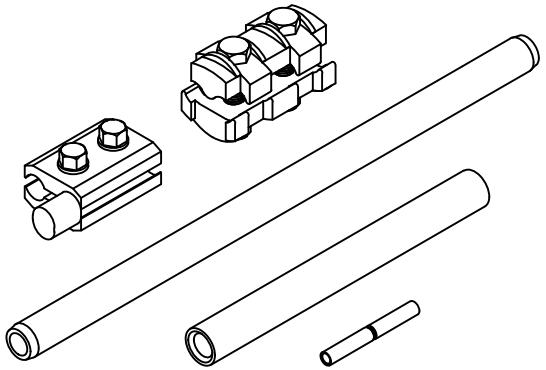
CONDUCTORS



CABLES



FITTINGS



CONNECTORS

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G100-SD-001

BM REV A

ALTERATIONS	REFERENCE
ORIGINAL ISSUE	NEW DRAWING

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
FITTINGS & CONNECTORS
GENERAL ASSEMBLIES

SCALE: NTS

A4

D - OHC - G100 - SD - 001

REVISION: A

DWG STATUS STANDARD

BARE MAINS - CURRENT CONDUCTORS

MATERIAL	CONDUCTOR NAME	STRANDS No./DIA. (mm)	NOMINAL DIAMETER (mm)	CSA (mm^2)	TIE, ROD & TERMINATION COLOUR	HELICAL TERMINATION	COMPRESSION SLEEVES		ARMOUR ROD	ARMOURED TOP TIE	ARMOURED SIDE TIE	VIBRATION DAMPER	CONDUCTOR	COMPRESSION LUG
							TENSION	NON-TENSION						
AAC	NEPTUNE	19/3.25	16.25	157.6	ORANGE	146440	146405	146265	145985	146509	146522	145483	101621	152491
AAC	MERCURY	7/4.50	13.50	111.3	GREEN	146436	146403	146263	145982	146513	146550	145490	101615	152480
AAAC	FLUORINE	7/3.00	9.00	49.48	RED	146471	146281	146280	146025	146508	146518	145482	101610	152471
SC/GZ	3/2.75	3/2.75	5.93	17.82	WHITE	148501	148482 (HELICAL SPLICE)	146261	148411	146530	146540	145480	438912	N/A

LVABC - CURRENT CABLES

CABLE (LVABC)		STRAIN	SUSPENSION	CONDUCTOR	COMPRESSION LUG
$25mm^2$	2 CORE	145600	145600	103005	N/A
$25mm^2$	4 CORE	145600	145613	103007	N/A
$50mm^2$	2 CORE	145602	145613	103004	145652
$50mm^2$	4 CORE	145602	145613	103002	145652
$95mm^2$	2 CORE	145602	145613	103003	145653
$95mm^2$	4 CORE	145607	145613	103001	145653
$150mm^2$	4 CORE	145607	145608	103008	145661

NOTES:

1. CONDUCTORS/CABLES OTHER THAN CURRENT PREFERRED SIZES ARE INCLUDED FOR REFERENCE PURPOSES.
2. NOTE THAT PRODUCT FROM VARIOUS MANUFACTURERS MAY DIFFER SLIGHTLY FROM THE DATA.
3. LVABC NEUTRAL CORE HAS RIBS ALL AROUND. PHASE CORE HAVE EITHER 1, 2 OR 3 RIBS.
4. DAMAGED STRANDS (AT THE POLE AND MID-SPAN) CAN BE REPAIRED WITH AMOUR RODS WHEN DAMAGE IS TO LESS THAN 50% OF THE STRANDS (I.E. 3 OF 7 OR 9 OF 19 STRANDS).
5. TOP TIES ARE ONLY TO BE USED WHEN LINE DEVIATION IS LESS THAN 10° ACROSS THE PIN.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS | ORIGINAL ISSUE

REFERENCE: NEW DRAWING

TasNetworks

DRAWN	AMSS
DRAFTING CHECK	AMSS
DESIGNED BY	T.JOWYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
CURRENT CONDUCTORS & CABLES
FITTINGS & CONNECTORS

SCALE: NTS
A4
REVISION: B

D - OHC - G101 - SD - 001

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BM DWG NO D-OHC-G101-SD-001 BM REV B

DWG STATUS STANDARD

BARE MAINS - LEGACY CONDUCTORS (ALUMINIUM)

MATERIAL	CONDUCTOR NAME METRIC {IMPERIAL}	STRANDS No./DIA. (mm) OR {IMPERIAL}	NOMINAL DIAMETER (mm)	CSA (mm^2)	HELICAL TERMINATION	COMPRESSION SLEEVES		ARMOUR ROD	ARMOURED TOP TIE	ARMOURED SIDE TIE	VIBRATION DAMPER	CONDUCTOR	COMPRESSION LUG	TIE, ROD, & TERMINATION COLOUR
						TENSION	NON TENSION							
AAC	{LOCUST}	{7/.093}	7.08	30.71	146431	146401	146261	146017	146514	146551	145481	SUPERSEDED	N/A	BLUE
	LEO	7/2.50	7.50	34.36	146431	146401	146261	146017	146514	146551	145481	SUPERSEDED	N/A	BLUE
	{GRUB}	{7/.118}	9.00	49.42	146471	146281	146280	146025	146508	146518	145482	SUPERSEDED	N/A	RED
	LIBRA	7/3.00	9.00	49.42	146471	146281	146280	146025	146508	146518	145482	SUPERSEDED	N/A	RED
	{FLY}	{7/.134}	10.21	63.88	146434	146402	146262	148412	146530 (UNARMOURED ONLY)	146540 (UNARMOURED ONLY)	145482	SUPERSEDED	N/A	PURPLE
	MARS	7/3.75	11.25	77.31	146435	146402	146262	148413	146552	146552	145482	SUPERSEDED	N/A	BLACK
	{WASP}	{7/.173}	13.18	106.19	146436	146403	146263	145982	146513	146550	145490	SUPERSEDED	152480	YELLOW
	{HORNET}	{19/.128}	16.25	157.60	146440	146405	146265	145985	146509	146522	145483	SUPERSEDED	152491	BLACK

NOTES:

1. CONDUCTORS/CABLES OTHER THAN CURRENT PREFERRED SIZES ARE INCLUDED FOR REFERENCE PURPOSES.
2. NOTE THAT PRODUCT FROM VARIOUS MANUFACTURERS MAY DIFFER SLIGHTLY FROM THE DATA.
3. DAMAGED STRANDS (AT THE POLE AND MID-SPAN) CAN BE REPAIRED WITH AMOUR RODS WHEN DAMAGE IS TO LESS THAN 50% OF THE STRANDS (I.E. 3 OF 7 OR 9 OF 19 STRANDS).
4. TOP TIES ARE ONLY TO BE USED WHEN LINE DEVIATION IS LESS THAN 10° ACROSS THE PIN.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS

ORIGINAL ISSUE

REFERENCE

NEW DRAWING

TasNetworks

DRAWN	AMSS
DRAFTING CHECK	AMSS
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
LEGACY ALUMINIUM CONDUCTORS
FITTINGS & CONNECTORS

SCALE: NTS

A4

D - OHC - G101 - SD - 002

REVISION: B

EMF/PDF CREATION DATE 08-05-2026

BM DWG NO D-OHC-G101-SD-002

BM REV B

DWG STATUS STANDARD

BARE MAINS - LEGACY CONDUCTORS (SC/GZ AND ACSR)

MATERIAL	CONDUCTOR NAME METRIC {IMPERIAL}	STRANDS No./DIA. (mm) OR {IMPERIAL}	NOMINAL DIAMETER (mm)	CSA (mm^2)	HELICAL TERMINATION	COMPRESSION SLEEVES		ARMOUR ROD	ARMOURED TOP TIE	ARMOURED SIDE TIE	VIBRATION DAMPER	CONDUCTOR	COMPRESSION LUG	TIE, ROD, & TERMINATION COLOUR
						TENSION	NON TENSION							
SC/GZ	3/12	3/2.64	5.69	16.45	148501	148482 (HELICAL SPLICE)	146261	148411	146530	146540	145480	SUPERSEDED	N/A	N/A
ACSR	{GOPHER}	{6/1/.093}	7.08	30.64	146470	146411	146261	146017	146514	146551	145481	SUPERSEDED	N/A	BLUE
	ALMOND	6/1/2.50	7.50	34.36	146470	146411	146261	146017	146514	146551	145481	SUPERSEDED	N/A	BLUE
	RAISIN	3/4/2.50	7.50	34.36	146470	146411	146261	146017	146514	146551	145481	SUPERSEDED	N/A	BLUE
	{FERRET}	{6/1/.118}	8.99	49.50	146472	146281	146280	146025	146508	146518	145482	SUPERSEDED	N/A	RED
	APPLE	6/1/3.00	9.00	49.50	146472	146281	146280	146025	146508	146518	145482	SUPERSEDED	N/A	RED
	{MINK}	{6/1/.144}	10.97	73.54	146473	146412	146262	148413	146552	146552	145482	SUPERSEDED	N/A	BLACK
	BANANA	6/1/3.75	11.30	77.31	146473	146412	146262	148413	146552	146552	145482	SUPERSEDED	N/A	BLACK
	{DOG}	{6/.186+7/.062}	14.17	118.70	146474	146283	802530	148414	146516	146553	145490	SUPERSEDED	N/A	BLUE
	CHERRY	6/4.75+7/1.60	14.30	120.40	146474	146283	802530	148414	146516	146553	145490	SUPERSEDED	N/A	BLUE
	{HYENA}	{7/4.39-7/1.93}	14.57	126.00	802158	146283	146265	801877	103512 (TIE WIRE)	103512 (TIE WIRE)	145483	SUPERSEDED	N/A	GREEN

NOTES:

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TasNetworks

DRAWN	AMSS
DRAFTING CHECK	AMSS
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
LEGACY SC/GZ & ACSR CONDUCTORS
FITTINGS & CONNECTORS

SCALE: NTS

A4

D - OHC - G101 - SD - 003

REVISION: B

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G101-SD-003

BM REV B

DWG STATUS STANDARD

BARE MAINS - LEGACY CONDUCTORS (COPPER)

MATERIAL	CONDUCTOR NAME	STRANDS No./DIA. (IMPERIAL)	NOMINAL DIAMETER (mm)	CSA (mm^2)	HELICAL TERMINATION	COMPRESSION SLEEVES		ARMOUR ROD	TOP TIE	SIDE TIE	VIBRATION DAMPER	CONDUCTOR	COMPRESSION LUG	TIE, ROD, & TERMINATION COLOUR
						TENSION	NON TENSION							
Cu	N/A	19/.064	7.92	38.39	148238	146705	146705	148415	103610	103610	145481	SUPERSEDED	141369	PURPLE
Cu	N/A	19/.083	10.54	66.32	148239	146708	146708	148416	103610	103610	145482	SUPERSEDED	141363	YELLOW
Cu	N/A	19/.101	12.83	98.19	148240	146707	146707	148417	103610	103610	145490	SUPERSEDED	141367	
Cu	N/A	19/.104	N/A	N/A	148240	146709	146709	148417	103610	103610	145490	SUPERSEDED	141367	N/A
Cu	N/A	7/.064	4.88	14.52	148232	146702	146702	148418	103610	103610	145480	SUPERSEDED	141299	PURPLE
Cu	N/A	7/.080	6.10	22.71	148234	146704	146704	148419	103610	103610	145480	SUPERSEDED	N/A	YELLOW
Cu	N/A	7/.097	7.39	32.26	148238	146703	146703	148415	103610	103610	145481	SUPERSEDED	N/A	
Cu	N/A	7/.104	8.25	33.00	148238	146703	146703	148415	103610	103610	145481	SUPERSEDED	N/A	WHITE
Cu	N/A	7/.048	3.66	8.07	148242	146701	146701	N/A	103610	103610	N/A	SUPERSEDED	N/A	GREEN

NOTES:

1. CONDUCTORS/CABLES OTHER THAN CURRENT PREFERRED SIZES ARE INCLUDED FOR REFERENCE PURPOSES.
2. NOTE THAT PRODUCT FROM VARIOUS MANUFACTURERS MAY DIFFER SLIGHTLY FROM THE DATA.
3. DAMAGED STRANDS (AT THE POLE AND MID-SPAN) CAN BE REPAIRED WITH AMOUR RODS WHEN DAMAGE IS TO LESS THAN 50% OF THE STRANDS (I.E. 3 OF 7 OR 9 OF 19 STRANDS).
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ALTERATIONS

ORIGINAL ISSUE

REFERENCE

NEW DRAWING

TasNetworks

DRAWN	AMSS
DRAFTING CHECK	AMSS
DESIGNED BY	T.JOYZIKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
LEGACY COPPER CONDUCTORS
FITTINGS & CONNECTORS

SCALE: NTS

A4

D - OHC - G101 - SD - 004

REVISION: B

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G101-SD-004

BM REV B

DWG STATUS STANDARD

COMMUNICATIONS - CURRENT CABLES					
TYPE	NAME/CODE	CATENARY/CABLE CSA (mm^2)	NOM. OVERALL DIAMETER (mm)	NOM. BREAKING LOAD (kN)	MASS (kg/m)
ADSS (OPTICAL FIBRE)	ADSS 72SM	124	12.50	28.00	0.120
	ADSS 312	247.6	22.00	22.00	0.365
NBN CABLE	RPX 144F RIBBON	114.9	15.20	8.60	0.095
	SST 12F	31.5	8.10	4.00	0.031
	ROC 1F DROP	12.4	5.40	3.00	0.015

NOTES:

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ALTERATIONS

ORIGINAL ISSUE

REFERENCE

NEW DRAWING

TasNetworks

DRAWN	AMSS
DRAFTING CHECK	AMSS
DESIGNED BY	T.JOWYZIKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
COMMUNICATION CABLES

SCALE: NTS

A4

D - OHC - G101 - SD - 005

REVISION: B

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G101-SD-005

BM REV B

DWG STATUS STANDARD

CONDUCTOR FITTINGS

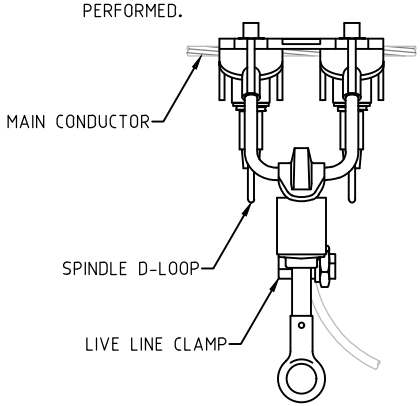
CONDUCTOR FITTINGS ARE AN IMPORTANT PART OF THE OVERHEAD POWER SYSTEM. RELIABILITY REPORTS INDICATE THAT MOST FAULTS ON THE SYSTEM ORIGINATE AT JOINTS, HENCE, FITTINGS AT JOINTS BECOME CRITICAL COMPONENTS. BASICALLY THERE ARE THREE TYPES OF FITTINGS USED:

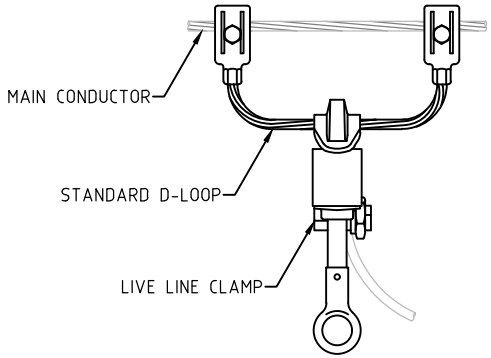
- BOLTED
- COMPRESSION/CRIMP
- HELICAL

BOLTED CONNECTIONS

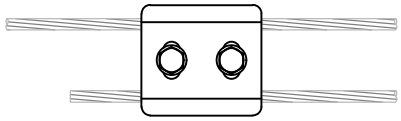
D-LOOPS & LIVE LINE CLAMPS:

- LIVE LINE CLAMPS TO BE ATTACHED TO D-LOOPS, NOT MAIN CONDUCTOR.
- D-LOOPS & LIVE LINE CLAMPS ARE THE PREFERRED CONNECTION FOR ALL TRANSFORMERS AS THEY ALLOW FOR INCREASED SAD'S WHEN WORK IS PERFORMED.

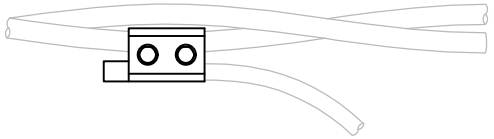




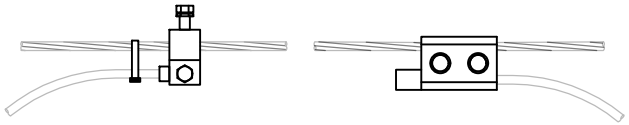
- ALUMINIUM AND BI-METAL PARALLEL GROOVE CLAMPS CAN BE USED FOR LOOPS & BRIDGING. 2 CLAMPS SHALL BE USED WITHIN 1.2km OF ZONE SUBSTATION.



- FOR LVABC, INSULATION PIERCING CONNECTORS (IPC'S) ARE USED.

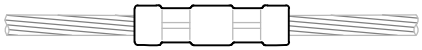


- FOR BARE TO SERVICES OR LVABC.

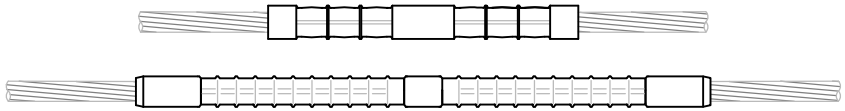


COMPRESSION

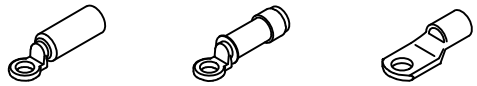
- NON-TENSION COMPRESSION SLEEVES PREFERRED FOR LOOPS & BRIDGING.



- MEDIUM & FULL TENSION COMPRESSION SLEEVES
- COPPER & ALUMINIUM CONDUCTORS UNDER TENSION MUST BE JOINED BY COMPRESSION SLEEVES.



- COMPRESSION LUGS MUST BE USED FOR TERMINATIONS AT TRANSFORMERS AND SWITCHGEAR.



EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G102-SD-001

BM REV B

ALTERATIONS	ORIGINAL ISSUE

REFERENCE

NEW DRAWING: SUPERSEDES
D-OHC-J006-SD-001

TasNetworks

DRAWN	AMSS
DRAFTING CHECK	AMSS
DESIGNED BY	T.JOYZIKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
FITTINGS & CONNECTORS OVERVIEW

SCALE: NTS

A4

D - OHC - G102 - SD - 001

REVISION: B

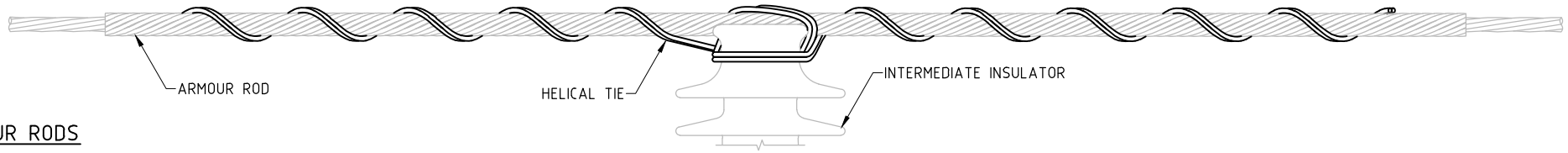
DWG STATUS STANDARD

HELICAL FITTINGS

- TENSION SPLICES TO JOIN 3/2.75 SC/GZ.

- HELICAL TERMINATIONS MUST BE USED TO TERMINATE BARE CONDUCTORS AT STRAIN POSITIONS.

- AT INTERMEDIATE POLES, HELICAL TOP AND/OR SIDE TIE MUST BE USED WITH ARMOUR RODS.

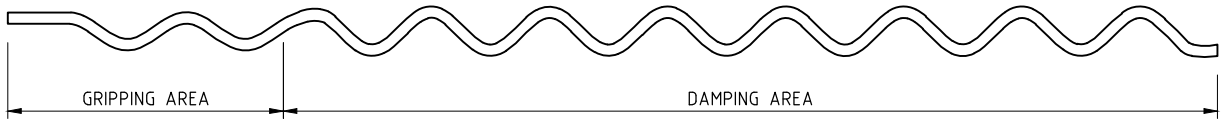


ARMOUR RODS

- ARMOUR RODS, HELICAL TOP AND/OR SIDE TIES (WHERE AVAILABLE) MUST BE USED FOR ALL INTERMEDIATE TIES.

VIBRATION DAMPERS

- VIBRATION DAMPERS MUST BE USED ON ALL SPANS GREATER THAN 100M, UNLESS SPECIFIED BY DESIGN.
- SPIRAL VIBRATION DAMPERS MAY BE INSTALLED ANYWHERE WITHIN THE SPAN. FOR SPANS BETWEEN 100m AND 250m, TWO DAMPERS PER PHASE SHALL BE INSTALLED, EITHER GROUPED TOGETHER IN A SUBSET, INSTALLED ONE BEHIND THE OTHER, OR POSITIONED AT EITHER POLE TOP, WHICHEVER IS MOST PRACTICAL FOR THE INSTALLATION. REFER D-OHC-G106-SD-001



SPAN LENGTH (m)	DAMPERS PER PHASE
100-250	2
251-500	4 (2 SUBSETS OF 2)
501-750	6 (2 SUBSETS OF 3)
751-1100	9 (3 SUBSETS OF 3)
1101-1500	12 (4 SUBSETS OF 4)

ALTERATIONS: ORIGINAL ISSUE

REFERENCE

NEW DRAWING: SUPERSEDES D-OHC-J006-SD-002

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
FITTINGS & CONNECTORS OVERVIEW CONT.

SCALE: NTS

A4

D - OHC - G102 - SD - 002

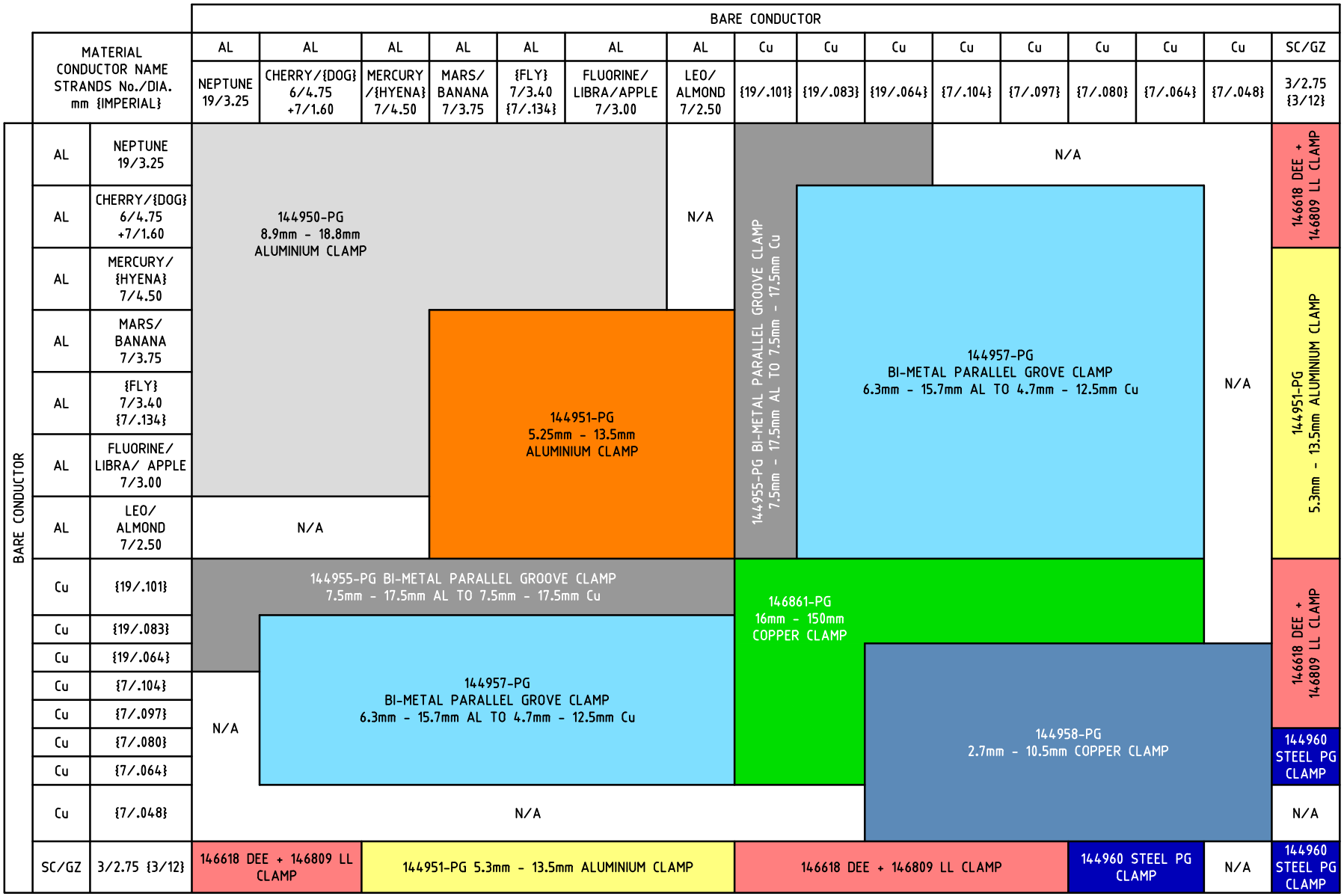
REVISION: A

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G102-SD-002

BM REV A

DWG STATUS STANDARD



EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G103-SD-001

BM REV A

ALTERATIONS	REFERENCE
ORIGINAL ISSUE	NEW DRAWING

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
BARE - BARE CONDUCTOR
CONNECTOR TABLES

SCALE: NTS

A4

D - OHC - G103 - SD - 001

REVISION: A

DWG STATUS STANDARD

CABLE TYPE	MATERIAL CONDUCTOR NAME CSA	LVABC 25mm²	LVABC 50mm²	LVABC 95mm²	LVABC 150mm²	SERVICE CABLE 16mm² Cu OR 25mm² ABC	INSULATED Cu STREET LIGHT 2.5mm²
CABLE TYPE	LVABC 25mm²	145620-IPC 25-95mm² LVABC - K445			145659 (SEE SERVICE CABLE)	145619-IPC 25-95mm² LVABC to 10-35mm² SERVICE - K441	145622-IPC 25-95mm² LVABC to 1.5-6mm² K441
	LVABC 50mm²						
	LVABC 95mm²						
	LVABC 150mm²	145659 (SEE SERVICE CABLE)	145657-IPC 150mm² LVABC - K446			145659 35-150mm² LVABC to 6-35mm² SERVICE - K443	N/A
	SERVICE CABLE 16mm² Cu OR 25mm² ABC	145619-IPC 25-95mm² LVABC to 10-35mm² SERVICE - K441			145659 35-150mm² LVABC to 6-35mm² SERVICE - K443	145654 3-35mm² to 4-35mm² HSC435A	N/A
	INSULATED Cu STREET LIGHT 2.5mm²	145622-IPC 25-95mm² LVABC to 1.5-6mm² K441			N/A	N/A	N/A

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G103-SD-002

BM REV A

ALTERATIONS	ORIGINAL ISSUE

REFERENCE
NEW DRAWING

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
LVABC - LVABC
CONNECTOR TABLES

SCALE: NTS

A4

D - OHC - G103 - SD - 002

REVISION: A

DWG STATUS STANDARD

		BARE CONDUCTOR												
	MATERIAL	AL	AL	AL	AL	AL	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
	CONDUCTOR NAME STRANDS No./DIA. mm {IMPERIAL}	NEPTUNE 19/3.25	MERCURY 7/4.50	MARS 7/3.75	FLUORINE 7/3.00	LEO 7/2.50	{19/.101}	{19/.083}	{19/.064}	{7/.064}	{7/.080}	{7/.097}	{7/.104}	{7/.048}
CABLE TYPE	LVABC 25mm²	146662 (SEE BELOW)	145632-IPC 7-120mm² BARE AL TO 25-95mm² LVABC - K473				145626-IPC 7-120mm² BARE Cu TO 25-95mm² LVABC - K472							
	LVABC 50mm²													
	LVABC 95mm²													
	LVABC 150mm²	145630-IPC 50-240mm² BARE AL TO 35-150mm² ABC - K475			N/A		145666 50-240mm² BARE Cu TO 35-150mm² LVABC - K474		N/A					
	SERVICE CABLE 16mm² Cu OR 25mm² ABC	145662-AL CONNECTOR AL BARE TO 10-35mm² INSULATED AL/Cu - CAW35					145655-IPC 5.5-135mm² BARE Cu TO 6-35mm² INSULATED AL/Cu - CCW35							

NOTES:

1. OLD IMPERIAL SIZE CONDUCTORS CAN BE CONSIDERED AS SIMILAR TO METRIC SIZES FOR IPC FITTINGS.

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G103-SD-003

BM REV A

ALTERATIONS	REFERENCE
ORIGINAL ISSUE	NEW DRAWING

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
LVABC - BARE CONDUCTOR
CONNECTOR TABLES

SCALE: NTS

A4

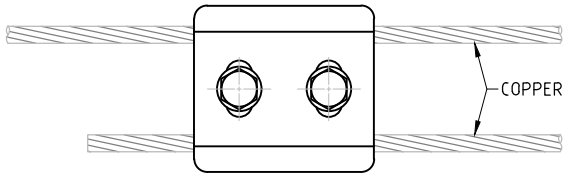
D - OHC - G103 - SD - 003

REVISION: A

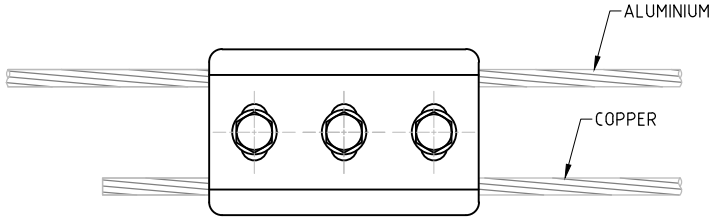
DWG STATUS STANDARD

PARALLEL GROOVE CLAMP CONNECTORS

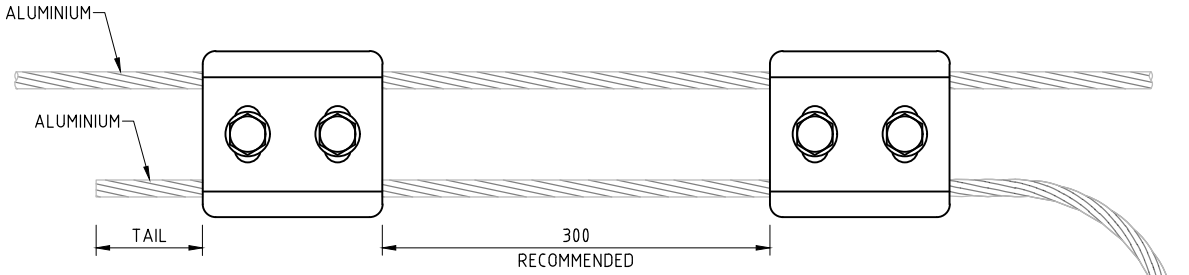
- PARALLEL GROOVE CLAMPS WILL BE USED FOR NON-TENSION JOINTS.
- 2 CLAMPS TO BE USED WITHIN 1.2km OF ZONE SUBSTATION.
- 2 CLAMPS TO BE USED FOR CONDUCTORS BETWEEN PREFORMED LEADS OF RECLOSERS, LOAD BREAK SWITCHES AND TENSIONED CONDUCTORS, SEPARATE BY 300mm IF PRACTICABLE, IF NOT PRACTICABLE LESS SPACING IS ACCEPTABLE.
- TAILS SHOULD PROTRUDE FROM CLAMP



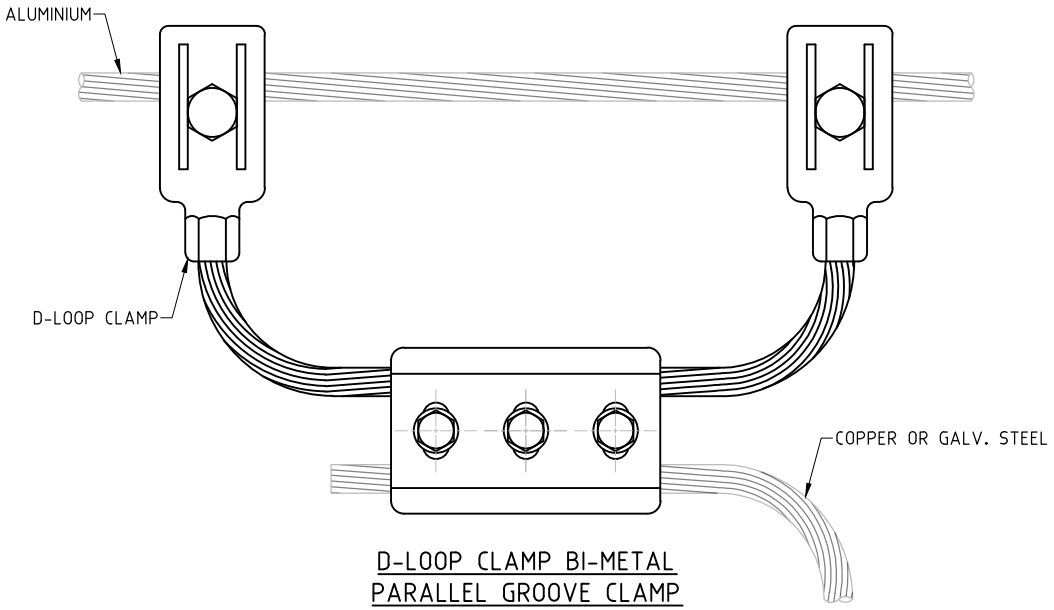
PARALLEL GROOVE CLAMP (2 BOLT)
144958 6-70mm²
146861 16-150mm²
COPPER TO COPPER CONDUCTORS
CONDUCTOR RANGE
Cu MAIN Ømm Cu TEE Ømm
8.9 - 18.8mm 8.9 - 18.8mm



BI-METAL PARALLEL GROOVE CLAMP (3 BOLT)
144955
ALUMINIUM TO COPPER CONDUCTORS
CONDUCTOR RANGE
AL MAIN Ømm Cu TEE Ømm
7.5 - 17.6mm 7.5 - 17.6mm



PARALLEL GROOVE CLAMP (2 BOLT)
144950
801948 25-240mm²
ALUMINIUM TO ALUMINIUM CONDUCTORS
CONDUCTOR RANGE



D-LOOP CLAMP BI-METAL PARALLEL GROOVE CLAMP

D-LOOP CLAMP			
STOCK ITEM NUMBER	AL MAIN	Cu LOOP	TYPE
146618	7.5-16.25mm	19/2.00	STANDARD
146811	4-21mm	7/2.75	SPINDLE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS: ORIGINAL ISSUE

REFERENCE

NEW DRAWING: SUPERSEDES
D-OHC-J013-SD-001
D-OHC-J013-SD-002

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
BOLTED CONNECTORS
PARALLEL GROVE CLAMPS

SCALE: NTS
A4
REVISION: A

D - OHC - G104 - SD - 001

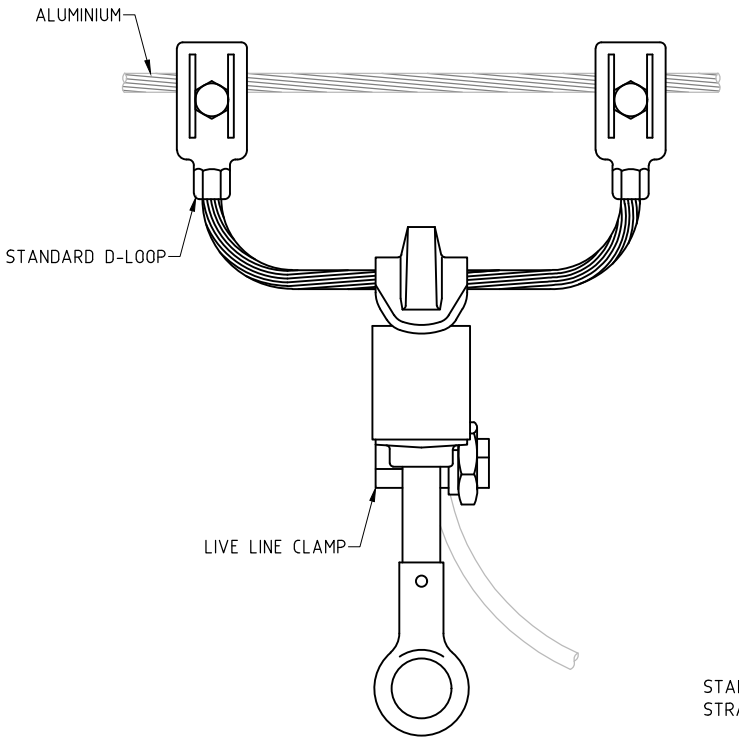
EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G104-SD-001 BM REV A

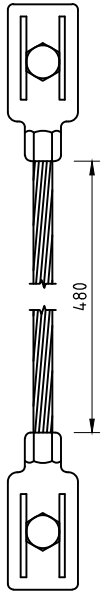
DWG STATUS STANDARD

LIVE LINE CLAMPS

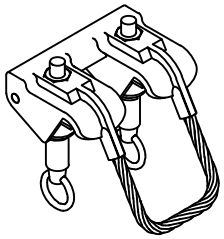
- WHEN INSTALLING ENSURE THAT CONDUCTORS ARE THOROUGHLY BRUSHED TO REMOVE OXIDES AND A SUITABLE CONTACT SEALANT APPLIED TO THE BRUSHED AREAS.
- COMPRESSION/CRIMP LUGS USED FOR CONDUCTORS USED AT AIR BREAK SWITCH AND HV LINK SITES.

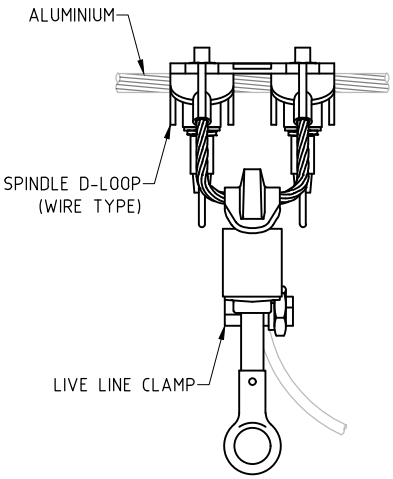


STANDARD D-LOOP

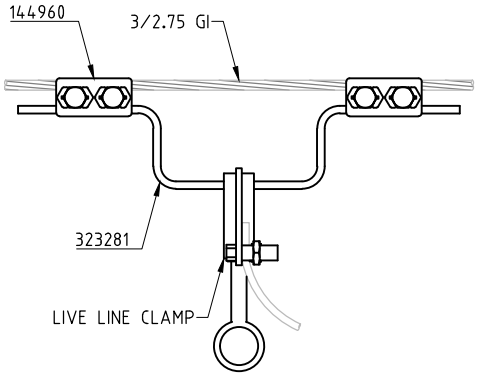


STANDARD D-LOOP SUPPLIED STRAIGHT, INSTALLED TO SUIT.

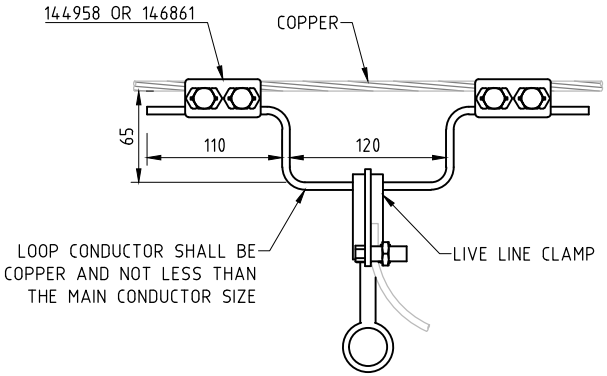




SPINDLE D-LOOP



PRE-FORMED D-LOOP



CONSTRUCTED D-LOOP
Cu/Cu

D-LOOP			
STOCK ITEM NUMBER	MAIN	LOOP	TYPE
146618	7.5-16.25mm AL	19/2.00	STANDARD
146811	4-21mm AL	7/2.75	SPINDLE
323281	3/2.75 GI	3/2.75	PRE-FORMED

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS: ORIGINAL ISSUE

REFERENCE

NEW DRAWING: SUPERSEDES D-OHC-J018-SD-001

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
BOLTED CONNECTORS
LIVE LINE CLAMPS

SCALE: NTS

A4

D - OHC - G104 - SD - 002

REVISION: A

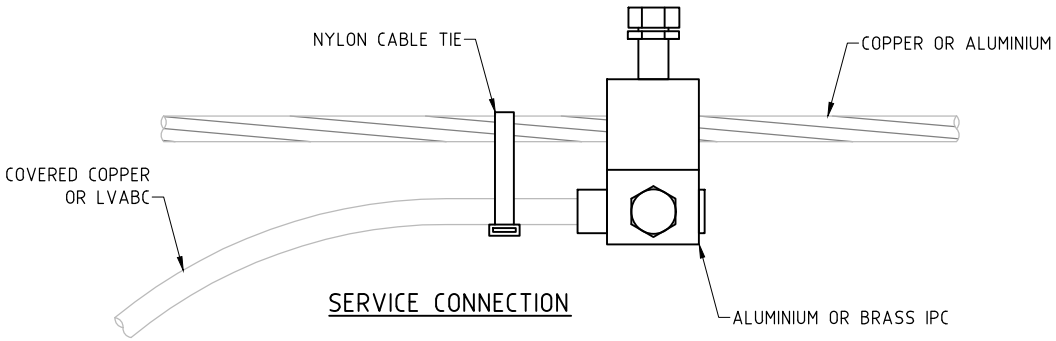
EMF/PDF CREATION DATE 80/05/2026

BM DWG NO D-OHC-G104-SD-002

BM REV A

DWG STATUS STANDARD

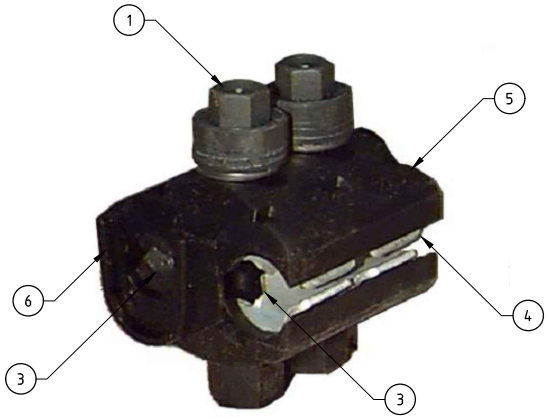
INSULATED PIERCING CONNECTORS (IPC) FOR LVABC



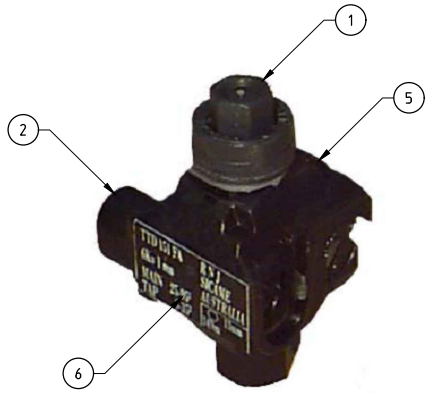
SERVICE CONNECTION

LEGEND:

1. PLASTIC SHEAR HEAD.
2. END CAP FILLED WITH GREASE FOR SEALING OF TEE CABLE.
3. INSULATION PIERCING TEETH.
4. SERRATED TEETH FOR BARE AL CONDUCTOR.
5. MAINS CABLE SIDE.
6. TEE CABLE SIDE.



2 BOLT IPC



1 BOLT IPC

NOTES:

1. REFER D-OHC-G103-SD-002 & D-OHC-G103-SD-003.
2. BEFORE FITTING STREET LIGHT TAIL TO CONNECTOR REMOVE 50mm OF OUTER PVC SHEATH.

ALTERATIONS	
ORIGINAL ISSUE	

REFERENCE

NEW DRAWING: SUPERSEDES
D-OHC-J019-SD-001

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
BOLTED CONNECTORS
LVABC PIERCING CONNECTORS

SCALE: NTS

A4

D - OHC - G104 - SD - 003

REVISION: A

EMF/PDF CREATION DATE 08/05/2026

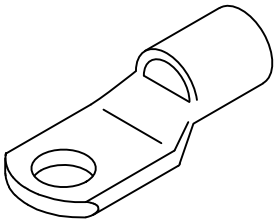
BM DWG NO D-OHC-G104-SD-003

BM REV A

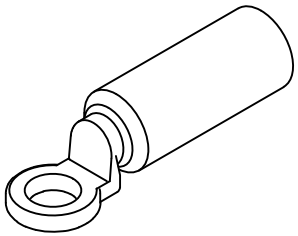
DWG STATUS STANDARD

COMPRESSION (CRIMP) LUGS

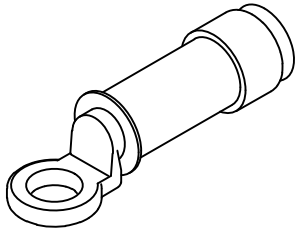
- COMPRESSION LUGS MUST BE USED FOR TERMINATIONS AT TRANSFORMERS AND SWITCHGEAR.



TINNED COPPER



BI-METAL



INSULATED

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

LUG MATERIAL	CONDUCTOR MATERIAL	HOLE SIZE	OH CONDUCTOR	CONDUCTOR SIZE (mm^2)	S.I. No.	TOOL/DIE No.	REMARKS
TINNED COPPER	COPPER	M12	7/.064	16	141299	38-63Cu	
		M12	19/.064	50	141361	38-104Cu	
		M12	19/.083	70	141363	38-115Cu	
		M12	19/.101	95	141367	38,40-142Cu	
		M12		120	141371	38-165Cu OR 40-165Cu	
		M12		150	141372	38-183Cu	CAN BE USED FOR 500kVA LV LEADS AND 630AMP SWITCH
		M12		185	141376	38-200Cu	CAN BE USED FOR 630AMP SWITCH WITH COPPER TAILS
		M12		240	141381	38-231Cu	CAN BE USED FOR 630AMP SWITCH WITH COPPER TAILS
BI-METAL	ALUMINIUM (STRANDED)	M12		35	152476	38-132AL	
		M10	7/3.00	50	152477	38-132AL	
		M12	7/4.50	120	152480	38-173AL OR 40-172AL	
		M12	19/3.25	150	152491	38-220AL OR 40-220AL	
		M12		185	152482	38-220AL OR 40-220AL	CAN USE WITH SWITCHGEAR LEADS
BI-METAL	ALUMINIUM ABC	M13	50	50	145652	38-173AL	
		M13	95	95	145653	38-215AL	
		M13	150	150	145661	38-215AL	

ALTERATIONS

ORIGINAL ISSUE

REFERENCE

NEW DRAWING: SUPERSEDES
D-OHC-J016-SD-001

TasNetworks

DRAWN	AMSS
DRAFTING CHECK	AMSS
DESIGNED BY	T.JOYZIKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
COMPRESSION FITTINGS
COMPRESSION CRIMP LUGS

SCALE: NTS

A4

D - OHC - G105 - SD - 001

REVISION: B

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G105-SD-001

BM REV B

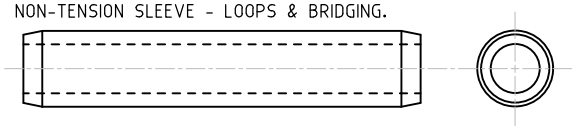
DWG STATUS STANDARD

COMPRESSION SLEEVES/SPLICES

- COMPRESSION SLEEVES USED FOR NON-TENSION LOOPS & BRIDGING.
- COMPRESSION SLEEVES USED FOR MEDIUM & FULL TENSION SPLICES & JOINTS.

STOCK ITEM NUMBER	CAT SUFFIX	CONDUCTOR RANGE (EITHER END) NOMINAL O.D. mm
146261	36	(6.0-8.0 OD) 6/1/2.50 ACSR, 7/2.50 AAC, 3/2.75 SC/GZ
146280	44	(8.0-10.0 OD) 6/1/.118, 6/1/3.00 ACSR, 7/3.00 AAC, 7/3.00 AAAC
146262	50	(10.0-12.0 OD) 6/1/.144, 6/1/3.75 ACSR, 7/3.75 AAC
146263	58	(12.0-13.5 OD) 7/.173, 7/4.50 AAC
146265	68	(14.0-16.0 OD) 6/.186-7/.062, 6/4.75-7/.160 ACSR, 19/.128, 19/3.25 AAC

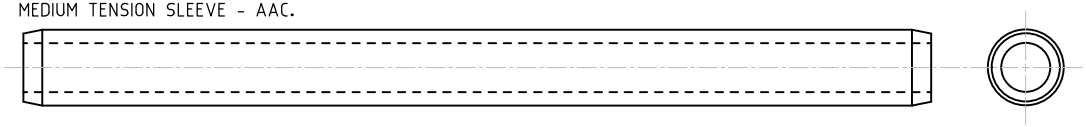
NON-TENSION SLEEVE - LOOPS & BRIDGING.



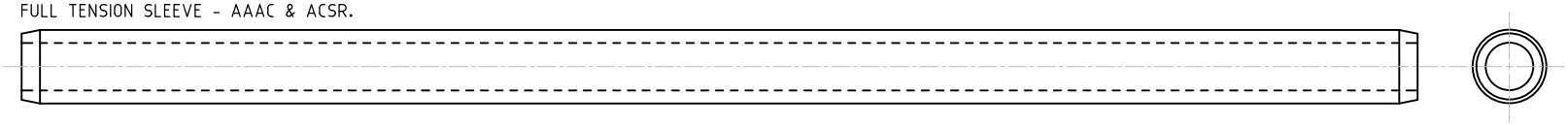
SUITABLE FOR ALUMINIUM TO ALUMINIUM OR ALUMINIUM TO GALVANIZED STEEL CONDUCTORS OR GALVANIZED TO GALVANIZED STEEL CONDUCTORS.

STOCK ITEM NUMBER	CAT SUFFIX	CONDUCTOR RANGE (EITHER END) NOMINAL O.D. mm
146401	36A	(6.0-8.0 OD) 7/2.50 AAC
146282	44A	(8.0-10.0 OD) 7/3.00 AAC
146402	50A	(10.0-12.0 OD) 7/3.75 AAC
146403	58A	(12.0-13.5 OD) 7/.173, 7/4.50 AAC
146405	68A	(14.0-16.0 OD) 19/.128, 19/3.25 AAC

MEDIUM TENSION SLEEVE - AAC.



FULL TENSION SLEEVE - AAAC & ACSR.



STOCK ITEM NUMBER	CAT SUFFIX	CONDUCTOR RANGE (EITHER END) NOMINAL O.D. mm
146411	36R	(6.0-8.0 OD) 6/1/2.50 ACSR
146281	44R	(8.0-10.0 OD) 6/1/.118, 6/1/3.00 ACSR, 7/3.00 AAAC
146412	50R	(10.0-12.0 OD) 6/1/.144, 6/1/3.75 ACSR
	68R	(14.0-16.0 OD) 6/.186-7/.062, 6/4.75-7/.160 ACSR

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS | ORIGINAL ISSUE

REFERENCE

NEW DRAWING: SUPERSEDES D-OHC-J009-SD-001

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
COMPRESSION FITTINGS
ALUMINIUM COMPRESSION SLEEVES

SCALE: NTS

A4

D - OHC - G105 - SD - 002

REVISION: A

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G105-SD-002

BM REV A

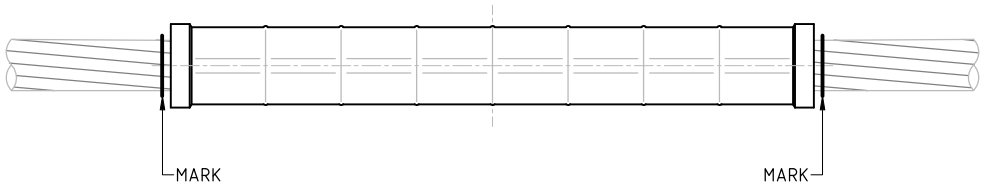
DWG STATUS STANDARD

COMPRESSION SLEEVES/SPLICES

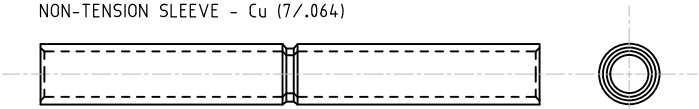
- COMPRESSION SLEEVES USED FOR NON-TENSION LOOPS & BRIDGING.
- COMPRESSION SLEEVES USED FOR MEDIUM & FULL TENSION SPLICES & JOINTS.

INSTALLATION NOTES

- CONDUCTORS MUST ALWAYS BE WIRE BRUSHED CLEAN BEFORE INSERTION INTO COMPRESSION SLEEVE.
- MARK THE CONDUCTORS WHILE FULLY INSERTED INTO THE SLEEVE, MEETING IN THE MIDDLE, TO ENSURE CONDUCTOR ENDS ARE FULLY PUSHED HALFWAY INTO SLEEVE WHEN CRIMPED.
- MAKE THE FIRST CRIMP TO THE SIDE OF THE CENTRE AND CARRY OUT A "TUG TEST" TO MAKE SURE THE CONDUCTOR HOLDS WITHIN THE CRIMP. THEN DO THE SAME WITH THE OTHER CONDUCTOR ON THE OTHER SIDE.
- CONTINUE TO ALTERNATE CRIMPS FROM SIDE TO SIDE MAKING SURE TO COMPRESS NEXT TO PREVIOUS COMPRESSION AS SHOWN. CEASE COMPRESSIONS 5mm FROM END OF FITTING.
- REMOVE ALL SHARP EDGES & BURRS FROM COMPLETED JOINT.

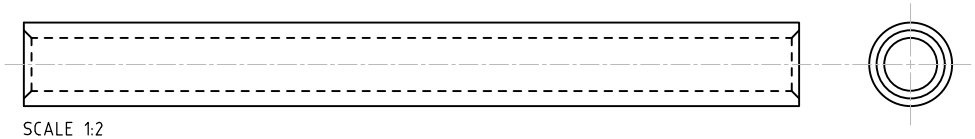


NON-TENSION SLEEVE - Cu (7/.064)



SCALE 1:1

SLEEVE - Cu 19/2.75 (19/.104)



SCALE 1:2

COPPER COMPRESSION SLEEVES			
IMPERIAL	METRIC	COMPRESSION SLEEVES	VALID DIE SIZE ACROSS FLATS (A/F) (mm)
7/.048	7/1.25	146701	4.4
7/.064	7/1.75	146702	6.3
7/.080	N/A	146704	7.7
7/.097	7/2.00	146703	10.4
7/.104	7/2.00	146703	10.4
19/.064	19/1.75	146705	10.4
19/.083	19/2.00	146708	13.0
19/.101	19/2.75	146707	19.3
19/.104	N/A	146709	19.3

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS

ORIGINAL ISSUE

REFERENCE
NEW DRAWING

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
COMPRESSION FITTINGS
COPPER COMPRESSION SLEEVES

SCALE: NTS

A4

D - OHC - G105 - SD - 003

REVISION: A

EMF/PDF CREATION DATE 08/05/2026

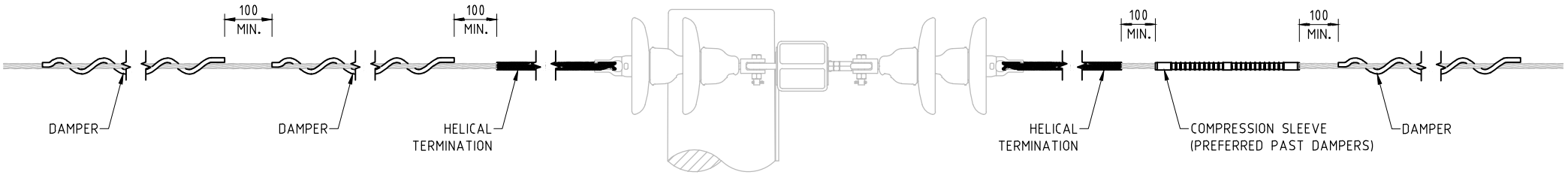
BM DWG NO D-OHC-G105-SD-003

BM REV A

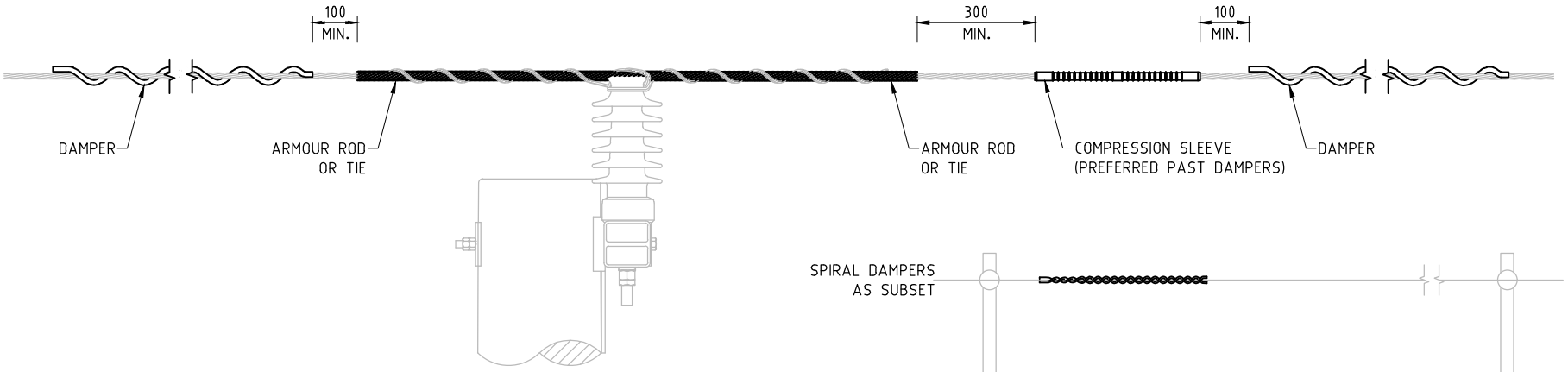
DWG STATUS STANDARD

POLE TOP FITTINGS

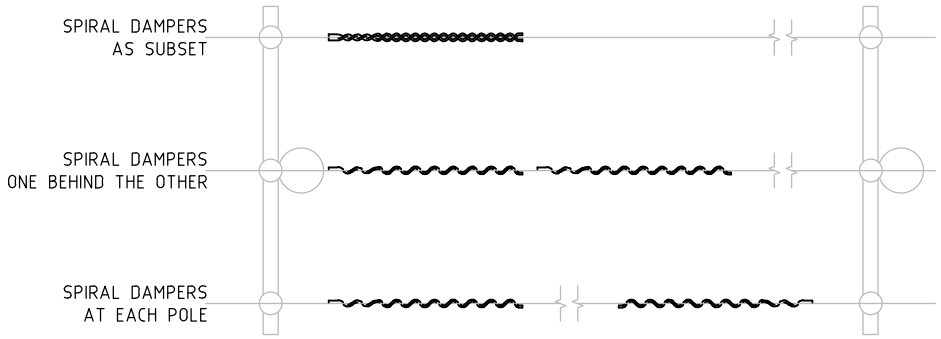
- ARMOUR ROD, COMPRESSION SLEEVE, DAMPER & HELICAL TERMINATION, MINIMUM DIMENSIONS & PREFERRED POSITIONS.
- REFER D-OHC-G102-SD-002 FOR DAMPER TABLE.



DEAD END OR STRAIN



INTERMEDIATE



SPIRAL DAMPER INSTALLATION OPTIONS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS	REFERENCE
ORIGINAL ISSUE	NEW DRAWING

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TasNetworks

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
POLE TOP FITTINGS
DETAILS AND DIMENSIONS

SCALE: NTS

A4

D - OHC - G106 - SD - 001

REVISION: A

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G106-SD-001

BM REV A

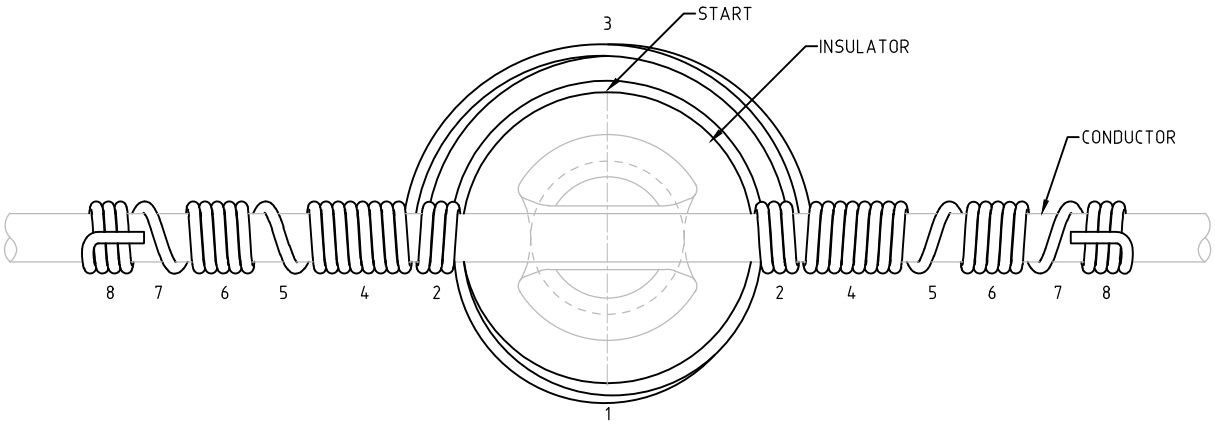
DWG STATUS STANDARD

CONDUCTOR TIE INSTALLATION

- NON-PREFERRED OPTION. NOT TO BE USED FOR PLANNED WORKS.
- TOP TIE FOR USE WITH COPPER CONDUCTOR OR WHERE NO HELICAL TIE IS AVAILABLE.
- SIDE TIE FOR USE WITH COPPER CONDUCTOR OR WHERE NO HELICAL TIE IS AVAILABLE.

SEQUENCE OF OPERATIONS:

HALVE TIE AND START WITH MIDDLE OF TIE AT BACK OF INSULATOR.
1. TAKE 1 TURN AROUND INSULATOR CROSSING THE TIE IN FRONT OF THE INSULATOR.
2. TAKE 3 TURN AROUND CONDUCTOR ON EACH SIDE OF INSULATOR.
3. TAKE .5 TURN AROUND BACK OF INSULATOR FROM EACH SIDE THEN BACK TO CONDUCTOR.
4. TAKE 8 TURNS AROUND CONDUCTOR.
5. TAKE 1 OPEN TURN (20mm GAPS) AROUND CONDUCTOR.
6. TAKE 5 TURNS AROUND CONDUCTOR.
7. TAKE 1 OPEN TURN (20mm GAPS) AROUND CONDUCTOR.
8. TAKE 3 TURNS AROUND CONDUCTOR AND FOLD TAIL BACK AGAINST CONDUCTOR.

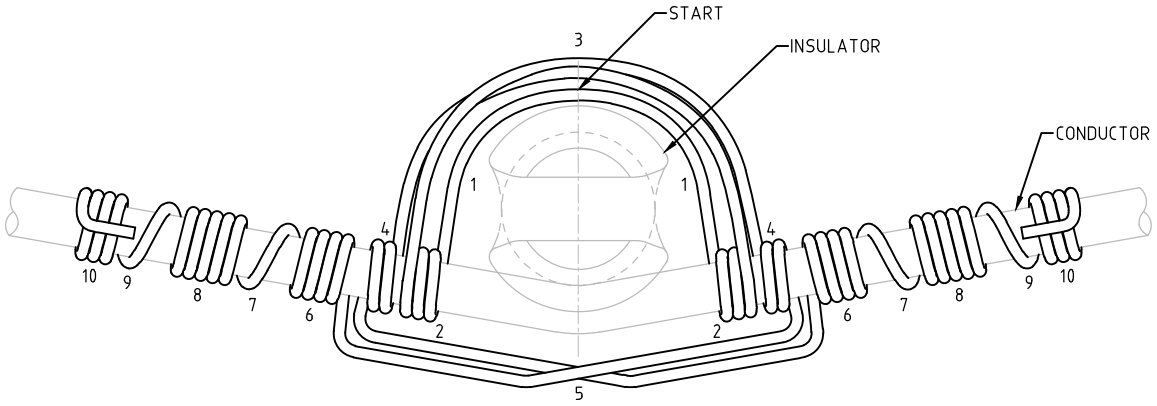


TOP TIE

FOR USE WITH COPPER CONDUCTOR OR WHERE NO HELICAL TIE IS AVAILABLE.

SEQUENCE OF OPERATIONS:

HALVE TIE AND START WITH MIDDLE OF TIE AT BACK OF INSULATOR.
1. TAKE .5 TURN AROUND INSULATOR TIE AND UNDER CONDUCTOR ON EACH SIDE.
2. TAKE 2.5 TURNS AROUND CONDUCTOR ON EACH SIDE OF INSULATOR.
3. CROSS ENDS AROUND BACK OF INSULATOR.
4. TAKE 2 TURNS AROUND CONDUCTOR EACH SIDE.
5. PASS ENDS ACROSS IN FRONT OF INSULATOR, THEN AROUND CONDUCTOR ON EACH SIDE.
6. TAKE 4 TURNS AROUND CONDUCTOR.
7. TAKE 1 OPEN TURN (20mm GAPS) AROUND CONDUCTOR.
8. TAKE 5 TURNS AROUND CONDUCTOR.
9. TAKE 1 OPEN TURN (20mm GAPS) AROUND CONDUCTOR.
10. TAKE 3 TURNS AROUND CONDUCTOR AND FOLD TAIL BACK AGAINST CONDUCTOR.



SIDE TIE

FOR USE WITH COPPER CONDUCTOR OR WHERE NO HELICAL TIE IS AVAILABLE.

CONDUCTOR			TIE WIRE		
TYPE	SIZE		TYPE	SIZE	S.I. No.
	METRIC	IMPERIAL			
COPPER BARE	7/1.25 TO 7/1.75	7/.044 TO 7/.064	ANNEALED COPPER	1.75mm	103613
	7/2.00 TO 19/1.75	7/.080 TO 19/.064		2.75mm	103610
	19/2.00 TO 19/2.75	19/.080 TO 19/.104		2.75mm	103610
AAC, AAAC OR ACSR/GZ	7/2.50 TO 19/3.25	7/.093 TO 19/.128	ANNEALED ALUMINIUM	4.75mm	103512
GALV. STEEL SC/GZ	3/2.75	3/.104	SOFT GALV. STEEL	2.50mm	432728

NOTES:

1. DRAWINGS ARE DIAGRAMMATIC ONLY.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS | ORIGINAL ISSUE

REFERENCE

NEW DRAWING: SUPERSEDES D-OHC-J027-SD-001

TasNetworks

DRAWN	AMSS
DRAFTING CHECK	AMSS
DESIGNED BY	T.JOYZIKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
POLE TOP HAND TIES
HV INTERMEDIATE & SIDE TIES

SCALE: NTS

A4

D - OHC - G107 - SD - 001

REVISION: B

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G107-SD-001

BM REV B

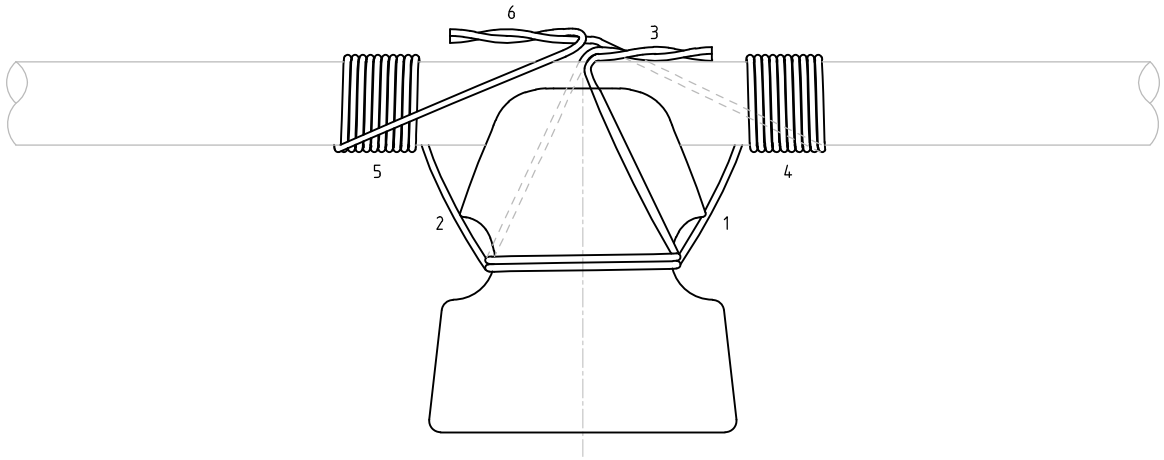
DWG STATUS STANDARD

CONDUCTOR TIE INSTALLATION - HV LOOPS OR LV TOP TIES

- TIE FOR USE WITH SMALL TOP LIPS.
- TIE FOR USE WITH NON-TENSIONED CONDUCTORS.
- TIE FOR USE LIMITED TENSION PVC INSULATED CONDUCTORS.

SEQUENCE OF OPERATIONS:

1. WORKING WITH TWO SHORT TIES; WRAP ONE ON RIGHT HAND SIDE ROUND INSULATOR WITH SHORT END AT FRONT. TWIST THE TWO ENDS TOGETHER 2 TURNS TO PULL THE TIE INTO THE INSULATOR.
2. WRAP THE OTHER TIE ON FOR LEFT HAND SIDE WITH SHORT END AT REAR. TWIST THE TWO ENDS TOGETHER 2.5 TURNS TO PULL THE TIE INTO THE INSULATOR.
3. BRING TWO SHORT ENDS TOWARDS CENTRE OF INSULATOR AND OVER CONDUCTOR AND TWIST TOGETHER, CUT OFF AND PUSH FLAT.
4. TAKE RIGHT HAND TIE AND WRAP ROUND CONDUCTOR 10 TURNS IN TIGHT FORMATION.
5. TAKE LEFT HAND TIE AND WRAP ROUND CONDUCTOR 10 TURNS IN TIGHT FORMATION IN THE OPPOSITE DIRECTION.
6. BRING BOTH ENDS TO CENTRE (TOP), TWIST TOGETHER, CUT OFF AND PUSH FLAT.



CONDUCTOR			TIE WIRE		
TYPE	SIZE		TYPE	SIZE	S.I. No.
	METRIC	IMPERIAL			
COPPER BARE	7/1.25 TO 7/1.75	7/.044 TO 7/.064	ANNEALED COPPER	1.75mm	103613
	7/2.00 TO 19/1.75	7/.080 TO 19/.064		2.75mm	103610
	19/2.00 TO 19/2.75	19/.080 TO 19/.104		2.75mm	103610
AAC, AAAC OR ACSR/GZ	7/2.50 TO 19/3.25	7/.093 TO 19/.128	ANNEALED ALUMINIUM	4.75mm	103512
GALV. STEEL SC/GZ	3/2.75	3/.104	SOFT GALV. STEEL	2.50mm	432728

NOTES:

1. DRAWING IS DIAGRAMMATIC ONLY.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 08/05/2026

ALTERATIONS

ORIGINAL ISSUE

REFERENCE

NEW DRAWING: SUPERSEDES
D-OHC-J029-SD-001

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
POLE TOP HAND TIES
HV LOOPS & LV TOP TIES

SCALE: NTS

A4

D - OHC - G107 - SD - 002

REVISION: A

BM DWG NO D-OHC-G107-SD-002

BM REV A

DWG STATUS STANDARD

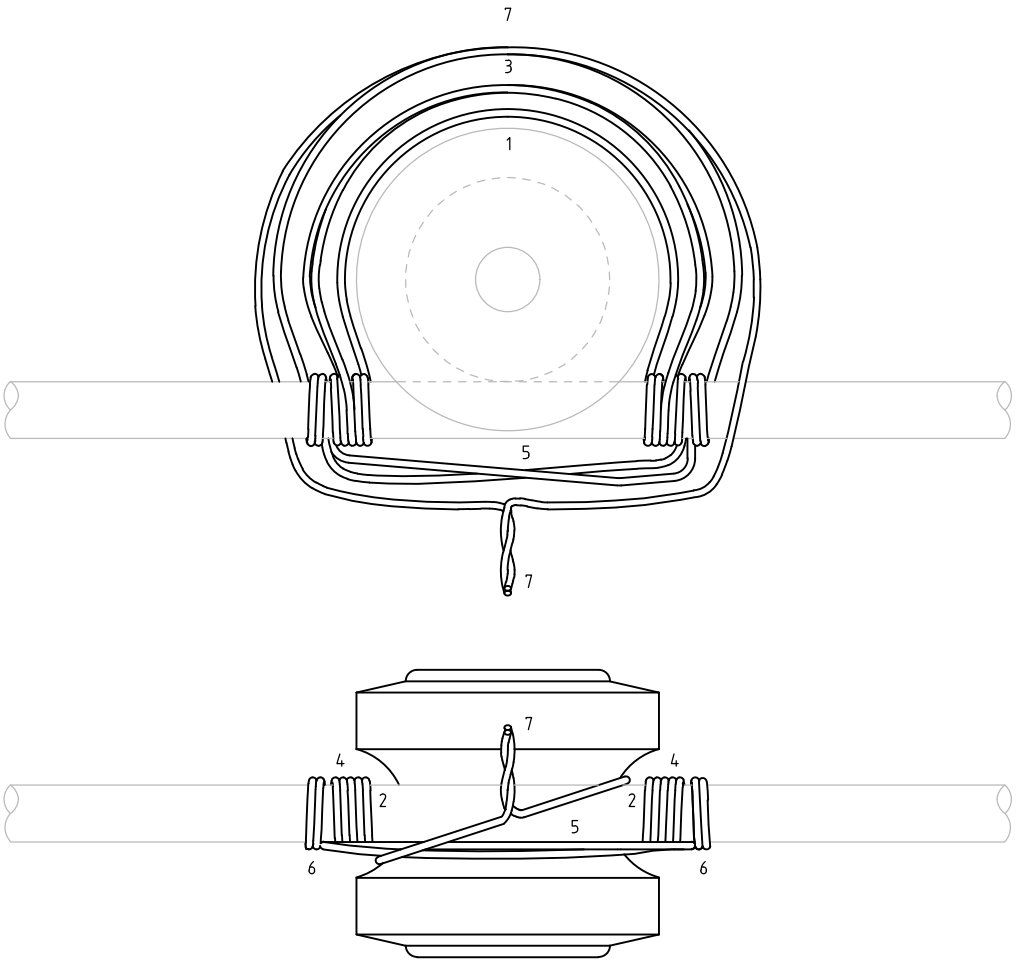
CONDUCTOR TIE INSTALLATION - SHACKLE INSULATOR

- TIE FOR USE WITH SHACKLE INSULATOR (INTERMEDIATE).

SEQUENCE OF OPERATIONS:

HALVE TIE WITH MIDDLE OF TIE AT BACK OF INSULATOR.

1. TAKE HALF TURN AROUND INSULATOR AND UNDER CONDUCTOR ON EACH SIDE.
2. TAKE 2.5 TURNS AROUND CONDUCTOR ON EACH SIDE OF THE INSULATOR IN TIGHT FORMATION.
3. CROSS ENDS AROUND BACK OF INSULATOR.
4. TAKE 2 TURNS AROUND CONDUCTOR ON EACH SIDE OF INSULATOR IN TIGHT FORMATION.
5. CROSS ENDS ACROSS IN FRONT OF INSULATOR.
6. TAKE 2 TURNS AROUND CONDUCTOR ON EACH SIDE OF INSULATOR IN TIGHT FORMATION.
7. CROSS ENDS AROUND THE BACK OF INSULATOR AND BRING TO FRONT, TWIST TOGETHER CUT OFF AND PUSH FLAT.



CONDUCTOR			TIE WIRE		
TYPE	SIZE		TYPE	SIZE	S.I. No.
	METRIC	IMPERIAL			
COPPER BARE	7/1.25 TO 7/1.75	7/.044 TO 7/.064	ANNEALED COPPER	1.75mm	103613
	7/2.00 TO 19/1.75	7/.080 TO 19/.064		2.75mm	103610
	19/2.00 TO 19/2.75	19/.080 TO 19/.104		2.75mm	103610
AAC, AAAC OR ACSR/GZ	7/2.50 TO 19/3.25	7/.093 TO 19/.128	ANNEALED ALUMINIUM	4.75mm	103512
GALV. STEEL SC/GZ	3/2.75	3/.104	SOFT GALV. STEEL	2.50mm	432728

NOTES:

1. DRAWINGS ARE DIAGRAMMATIC ONLY.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G107-SD-003

BM REV A

ALTERATIONS

ORIGINAL ISSUE

REFERENCE

NEW DRAWING: SUPERSEDES D-OHC-J029-SD-001

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
POLE TOP HAND TIES
LV SHACKLE INSULATOR TIES

SCALE: NTS

A4

D - OHC - G107 - SD - 003

REVISION: A

DWG STATUS STANDARD

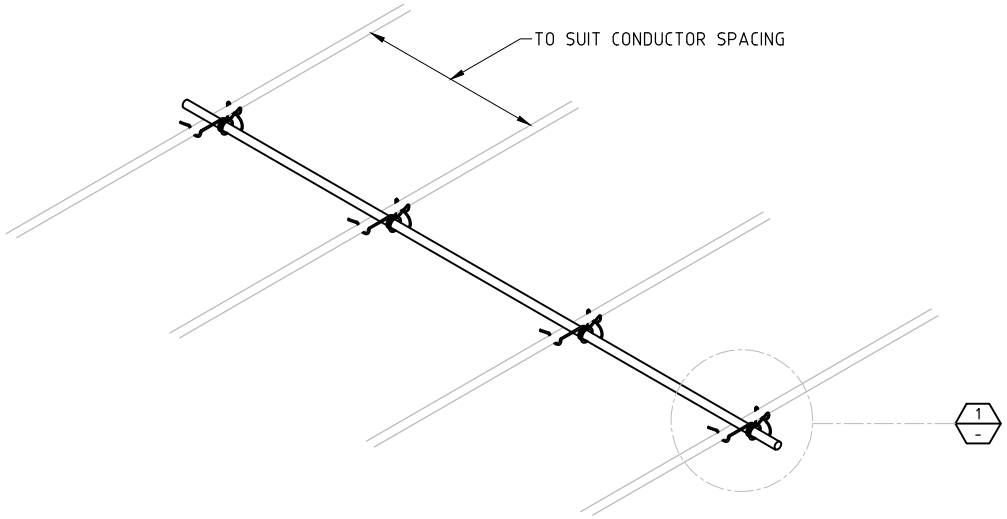
CONDUCTOR SPREADER

SINGLE PHASE SPANS

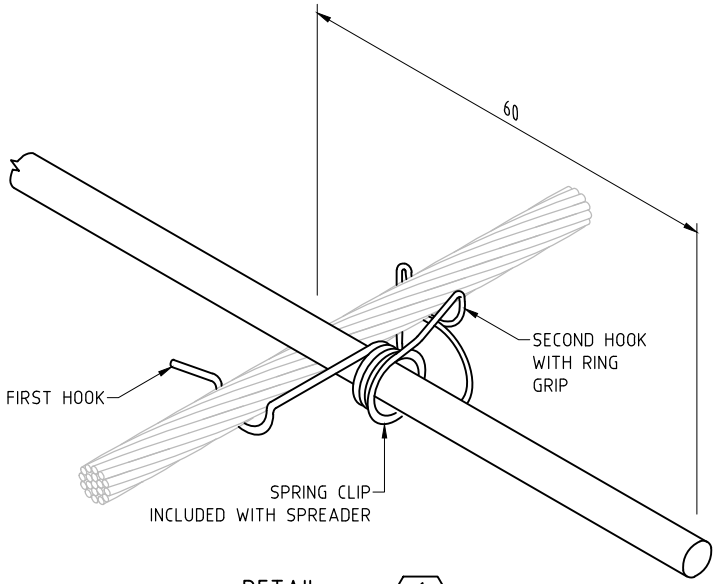
- INSTALL A SPREADER IF THE SPAN IS GREATER THAN 180m.

MULTI PHASES

- (2 AND 3 PHASES) A SPREADER IS REQUIRED EVERY 30m.
- REFER TO TABLE FOR NUMBER OF SPREADERS PER SPAN.
- POSITION THE SPREADERS EVENLY THROUGHOUT SPAN.



GENERAL ARRANGEMENT
324063



DETAIL 1
SCALE NTS

SPAN LENGTH (m)	0-30	31-60	61-90	91-120	121-150	151+
No. OF SPREADERS	0	1	2	3	4	$=\frac{\text{LENGTH}}{30}-1$

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS	REFERENCE
ORIGINAL ISSUE	NEW DRAWING: SUPERSEDES D-OHC-J032-SD-001

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
LV CONDUCTOR SPREADER
DETAILS AND REQUIREMENTS

SCALE: NTS
A4
REVISION: A

D - OHC - G108 - SD - 001

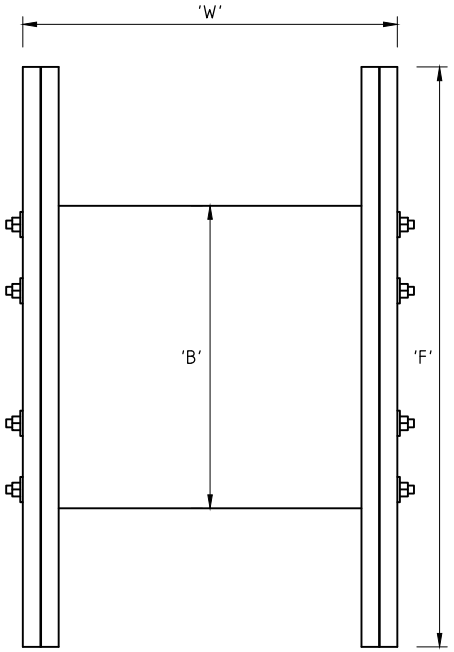
EMF/PDF CREATION DATE 08/05/2026

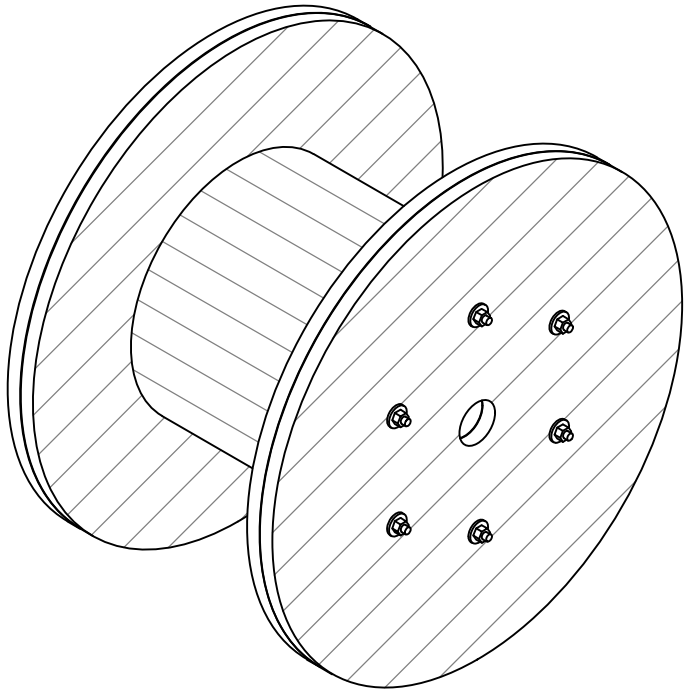
BM DWG NO D-OHC-G108-SD-001

BM REV A

DWG STATUS STANDARD

CABLE DRUM SIZES





F* = FLANGE DIAMETER INCLUDING LAGGING.

B* = BARREL DIAMETER.

W* = OVERALL WIDTH EXCLUDING BOLT PROJECTIONS.

DRUMS QUOTED ARE TO CONFORM WITH THE REQUIREMENTS OF AS:2857-TIMBER DRUMS FOR INSULATED ELECTRICAL CABLES AND BARE CONNECTORS.

DRUM REFERENCE NUMBER	OVERALL DIMENSIONS EXCLUDING BOLT			SPINDLE HOLE DIAMETER mm	NAME	CONDUCTOR		APPROX. MASS (kg)	APPROX. LENGTH (mm)	STOCK ITEM NUMBER
	F* (mm)	B* (mm)	W* (mm)			STRANDING	TYPE			
R800/400/450	850	400	520	60		3/2.75	SC/GZ	470	3000	438912
R900/500/600	950	500	690	60	FLUORINE	7/3.00	AAAC	375	2530	101610
R1100/600/650	1150	600	740	95	MERCURY	7/4.50	AAC	730	2060	101615
					NEPTUNE	19/3.25	AAC	660	1400	101621
					-	2 x 50mm^2	ABC	260	500	103004
R1200/600/800	1250	600	890	95	-	4 x 50mm^2	ABC	530	500	103002
R1400/700/750	1450	700	870	95	-	2 x 95mm^2	ABC	510	500	103003
R1600/800/750	1664	800	870	95	-	4 x 95mm^2	ABC	900	500	103001

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS

ORIGINAL ISSUE

REFERENCE

NEW DRAWING: SUPERSEDES D-OHC-J033-SD-001

TasNetworks

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.KNYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	08-05-2026

TITLE: CONDUCTORS-CABLES-FITTINGS & CONNECTORS
CABLE DRUM SIZES
BARE AND LVABC

SCALE: NTS

A4

D - OHC - G109 - SD - 001

REVISION: A

EMF/PDF CREATION DATE 08/05/2026

BM DWG NO D-OHC-G107-SD-002

BM REV A

DWG STATUS STANDARD