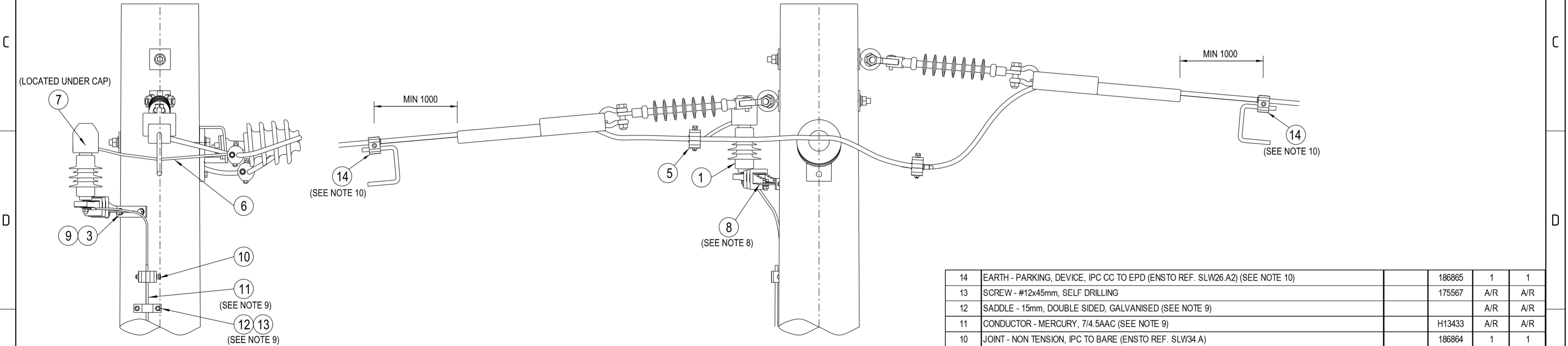


ARRANGEMENT 1
11kV POLYMERIC SURGE ARRESTER
TYPICAL CROSSARM INSTALLATION DETAILS



ARRANGEMENT 2
11kV POLYMERIC SURGE ARRESTER
TYPICAL TERMINATION POLE INSTALLATION DETAILS

NOTES :

1. ONLY USE SURGE ARRESTERS THAT ARE SPECIFIED AS COMPATIBLE WITH THE COVERED CONDUCTOR SYSTEM.
2. POLE CONSTRUCTIONS SHOWN ARE INDICATIVE ONLY.
3. 11kV POLYMERIC EARTHLEAD DISCONNECT SURGE ARRESTERS ARE TO BE USED AS SURGE PROTECTION ON ALL CCSX CONSTRUCTIONS.
4. SURGE ARRESTERS ARE TO BE INSTALLED ON AN OVERHEAD CCSX CONDUCTOR SYSTEM AT THE INTERFACE TO AN ALTERNATE CONDUCTOR SYSTEM AND IN ACCORDANCE WITH THE REQUIREMENTS OF NS126.
5. ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
6. TO MAINTAIN THE INTEGRITY OF A COVERED SYSTEM, IT IS ESSENTIAL THAT ALL STRIPPED AND PUNCTURED INSULATION IS CONTAINED WITHIN THE APPROPRIATE INSULATING COVER.
7. CCSX CONDUCTOR INSULATION SHALL ONLY BE REMOVED BY THE USE OF AN APPROVED CONDUCTOR STRIPPING TOOL.
8. WHEN MOUNTING A SURGE ARRESTER 'T' MOUNTING BRACKET DIRECTLY TO A POLE, THE BRACKET IS TO BE FORMED TO SUIT THE RADIUS OF THE POLE.
9. THE EARTH DOWN LEAD CABLE IS TO BE SECURED TO THE POLE AS REQUIRED USING DOUBLE SIDED GALVANISED STEEL SADDLES. REFER TO DRG: 508786 FOR STANDARD CONSTRUCTION TIMBER POLE STRUCTURE EARTHING ARRANGEMENT AND NS116 TABLE 1 FOR THE TARGET EARTHING IMPEDANCE.
10. A CCSX EARTHING POINT IS TO BE INSTALLED WHERE REQUIRED FOR OPERATIONAL PURPOSES OR AT LOCATIONS SPECIFIED IN NS126. ONLY ONE SET OF EARTHING POINTS IS REQUIRED ON THESE ARRANGEMENTS. THE EARTHING POINTS CAN BE INSTALLED AT EITHER OF THE ALTERNATE LOCATIONS INDICATED.

14	EARTH - PARKING, DEVICE, IPC CC TO EPD (ENSTO REF. SLW26.A2) (SEE NOTE 10)		186865	1	1
13	SCREW - #12x45mm, SELF DRILLING		175567	A/R	A/R
12	SADDLE - 15mm, DOUBLE SIDED, GALVANISED (SEE NOTE 9)			A/R	A/R
11	CONDUCTOR - MERCURY, 7/4.5AAC (SEE NOTE 9)		H13433	A/R	A/R
10	JOINT - NON TENSION, IPC TO BARE (ENSTO REF. SLW34.A)		186864	1	1
9	SCREW - COACH, M12x90mm, GALVANISED		50443		2
8	BRACKET - 'T' MOUNTING, 11kV POLYMERIC SURGE ARRESTER (SEE NOTE 8)		177944	1	1
7	LUG - COMPRESSION, TO SUIT 25mm ² ALUMINIUM CONDUCTOR (M12 HOLE)			2	2
6	CONDUCTOR - CCSX, 25mm ² , AMOKABEL		186862	0.5m	0.5m
5	JOINT - NON TENSION, IPC TO IPC (ENSTO REF. SLW26.A)		186863	1	1
4	WASHER - CONICAL, M12, GALVANISED	518082	H39639	2	
3	WASHER - FLAT, M12, GALVANISED	518081	177982	4	2
2	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE ON 150mm CROSSARMS)		46888		
	BOLT & NUT - M12x130mm, HEX., GALVANISED (USE ON 100mm CROSSARMS)	515466	46805	2	
1	ARRESTER - SURGE, 11kV, 10kA, POLYMERIC, EARTHLEAD DISCONNECT (C/W ALUMINIUM EARTH LEAD)		150383	1	1
ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY	
				AR-1	AR-2

ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE.

CAD DRAWING
DO NOT MANUALLY AMEND
AMENDMENTS
DWN: P.R.
CHKD: P.J.
APPD: G.F.
DATE: 09/05/2024
MATERIAL LIST & NOTES
AMENDED. REFERENCE TO
NOTE 10 ADDED.

TIMBER POLE STRUCTURE EARTHING ARRANGEMENT TYPE SE-M5 508786

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND,
NSW 2287

SCALE	1:10
DESIGNED	J.BROOKS
DRAWN	P.RIOS
CHECKED	P.JONES
APPROVED	G.FORD
DATE	04/04/2024
PROJECT NUMBER	STD
PROJTRAK NUMBER	-

STANDARD CONSTRUCTION 11kV CCSX CONDUCTOR SURGE ARRESTER ARRANGEMENTS	
SIZE	DRAWING No
A2	265905
SHEET	AMD
1	1