

VEHICLE EARTHING SET MAX 23.7kA @ 1sec.



BALL PINS

VEHICLE ATTACHMENT

PFISTERER PART No. 360 938 095

- THREAD - M16
- BALL DIAMETER - 25mm
- MAX TORQUE - 135Nm



EARTHING CLAMP

**UNIVERSAL EARTH CLAMP U2
PFISTERER PART No. 361 346 001**

- CLAMPING RANGE - 2 - 20mm
- CLAMPING WIDTH - 38mm
- FOR BALL PIN - Dia 2.5mm
- CONNECTION SCREW - M12



EARTHING CABLE

**PFISTERER PART No. 369 201001
VERSION No. 0115**

- CABLE CROSS SECTION - 120sq mm COPPER
- CLEAR INSULATION

EARTHING OPTIONS

Option 01 - EARTHING SPIKE



PFISTERER PART No. 360 115 115
T-IRON EARTHING SPIKE, HOT DIP GALVANIZED, (WITHOUT EARTHING CABLE), WITH M12 CONNECTING SCREW AND TWO HALF-SHELLS FOR WINDING THE EXTENSION EARTHING CABLE.

REFER TO NOTE 5

Option 02 - EARTHING CLAMP

**UNIVERSAL EARTH CLAMP U2
PFISTERER PART No. 361 346 001**

- CLAMPING RANGE - 2 - 20mm
- CLAMPING WIDTH - 38mm
- FOR BALL PIN - Dia 2.5mm
- CONNECTION SCREW - M12



REFER TO NOTE 6

NOTES

1. Ballpins shall to be attached to a metallic part of the vehicle that is clear of paint, corrosion, dirt and grease. The exposed metal shall have a bright metallic luster. After the earthing pin has been installed, the area can be coated in a zinc rich paint.
2. If using the earth spike, the spike must be at least 3 meters away from the earthed vehicle.
3. Earthing cables with clear insulation must be stored out of direct sunlight when not in use. The condition of the cable insulation and the cable's visible stranding shall be inspected before each use.
4. Before each use, ensure that all contact points are clean, free of dirt, grease and corrosion and that all bolted connections are tight.
5. Option 01 - To be used where no existing earthing system is present. Earthing spike shall be placed between a minimum distance of 3 meters and a maximum of 10 meters away from the earthed vehicle and the general area of works. All personnel must be made aware of the earth spike location and that the general area should be avoided. Earth stakes shall be barriered for a radius of 1 meter minimum to guard against touch potential. To assist with short-circuit currents, the ground around the earth spike should be moist. This could be obtained by using water and wetting the general area.
6. Option 02 - To be used where an existing earthing network is present, i.e. package substation, HV switchgear earth grids, Zone Substation earthing system and existing PowerWater transformer poles. Care needs to be taken to ensure the all contact surfaces are clean and free of dirt, grease and corrosion.

NO	DESCRIPTION	DRN	DATE	CKD	APPD
1	NOTES CHANGED, ITEM 1 REMOVED, EARTH CONNECTION OPTIONS CHANGED	C.M.	OCT'10	A.T.	S.C.
0	ISSUED FOR COMMENT	C.M.	APR'10	A.T.	S.C.
AMENDMENTS					



DES	A.TAYLOR	POWER STANDARD DRAWING			
DRN	C.McLAREN	EARTHING			
CKD	A.TAYLOR	PROTECTIVE BONDER			
APPD	B.CHEUNG	FOR VEHICLES			
SCALE	N.T.S.	A3	DRAWING NUMBER	S1-2-3-20	AMDT
ISSUED	APR'10				
ALL DIM.	IN mm	DRAFTING STANDARD TO A.S.1100			
CAD PRODUCT - DO NOT AMEND MANUALLY					