

Lightning Protection & Grounding Systems

The first step in designing a Lightning Protection & Grounding system is Risk Assessment for a structure. Axis provides an online Risk Assessment Tool based on the guidelines from IEC 62305 Part 2. The Axis Risk Assessment Tool uses a range of parameters that allow users to determine risk to their structure and thus the Class of Lightning Protection System (LPS) that is required.

Axis Grounding systems follow International Standards like UL 467, BS 6651 & BS 7430 and are approved by leading Electrical Distributors and Consultants worldwide. These Products are easy to install & highly reliable and are manufactured and tested under stringent ISO quality control measures. AXIS Grounding systems are used around the world in core sectors of the economy such as Power, Industrial applications, Oil & many more.



Copper Bonded Ground Rods (Threaded)



COPPER BONDED GROUND RODS - SECTIONAL

AXIS Copper Bonded Ground Rods have a core of high tensile low carbon steel with each rod made by molecularly bonding 99.9% Pure Electrolytic Copper. Threads on the rods are normally formed by a roll threading process giving strength to the threads & eliminating risk of chipping of threads while driving the rod into the ground. These rods are tested in accordance to UL 467 and IEC 62561-2 Standard.



Ground Rod Data					E-Code
Nominal Rod Dia (Inch)	Actual Rod Dia (Inch)	Nominal Thread Size (Inch)	Total Length (Feet)	Total Length (mm)	
1/2"	0.50"	1/2"	8'	2400	CBR1224TUL
1/2"	0.50"	1/2"	10'	3000	CBR1230TUL
1/2"	0.50"	1/2"	12'	3600	CBR1236TUL
1/2"	0.50"	9/16"	8'	2400	CBR1424TUL
1/2"	0.50"	9/16"	10'	3000	CBR1430TUL
1/2"	0.50"	9/16"	12'	3600	CBR1436TUL
5/8"	0.56"	5/8"	8'	2400	CBR1624TUL
5/8"	0.56"	5/8"	10'	3000	CBR1630TUL
5/8"	0.56"	5/8"	12'	3600	CBR1636TUL
5/8"	0.63"	5/8"	8'	2400	CBR1824TUL
5/8"	0.63"	5/8"	10'	3000	CBR1830TUL
5/8"	0.63"	5/8"	12'	3600	CBR1836TUL
3/4"	0.68"	3/4"	8'	2400	CBR2024TUL
3/4"	0.68"	3/4"	10'	3000	CBR2030TUL
3/4"	0.68"	3/4"	12'	3600	CBR2036TUL
3/4"	0.75"	3/4"	8'	2400	CBR2224TUL
3/4"	0.75"	3/4"	10'	3000	CBR2230TUL
3/4"	0.75"	3/4"	12'	3600	CBR2236TUL
1"	0.98"	1"	8'	2400	CBR2524TUL
1"	0.98"	1"	10'	3000	CBR2530TUL
1"	0.98"	1"	12'	3600	CBR2536TUL

Note:

1. Coupler can be provided separately on request.
2. Different lengths can be provided on request.

Copper Bonded Ground Rods (Threaded) Kit



The Axis Copper Bonded Ground Rod Kit includes 2 Grounds and 1 Coupler. This kit is UL Listed as a set.

Ground Rod Data					E-Code
Nominal Rod Dia (Inch)	Actual Rod Dia (Inch)	Nominal Thread Size (Inch)	Total Length (Feet)	Total Length (mm)	
1/2"	0.50	1/2"	8' (4'+4')	2400	CBR1224TKUL
1/2"	0.50	1/2"	10' (5'+5')	3000	CBR1230TKUL
1/2"	0.50	1/2"	12' (6'+6')	3600	CBR1236TKUL
1/2"	0.50	9/16"	8' (4'+4')	2400	CBR1424TKUL
1/2"	0.50	9/16"	10' (5'+5')	3000	CBR1430TKUL
1/2"	0.50	9/16"	12' (6'+6')	3600	CBR1436TKUL
5/8"	0.56	5/8"	8' (4'+4')	2400	CBR1624TKUL
5/8"	0.56	5/8"	10' (5'+5')	3000	CBR1630TKUL
5/8"	0.56	5/8"	12' (6'+6')	3600	CBR1636TKUL
5/8"	0.63	5/8"	8' (4'+4')	2400	CBR1824TKUL
5/8"	0.63	5/8"	10' (5'+5')	3000	CBR1830TKUL
5/8"	0.63	5/8"	12' (6'+6')	3600	CBR1836TKUL
3/4"	0.68	3/4"	8' (4'+4')	2400	CBR2024TKUL
3/4"	0.68	3/4"	10' (5'+5')	3000	CBR2030TKUL
3/4"	0.68	3/4"	12' (6'+6')	3600	CBR2036TKUL
3/4"	0.75	3/4"	8' (4'+4')	2400	CBR2224TKUL
3/4"	0.75	3/4"	10' (5'+5')	3000	CBR2230TKUL
3/4"	0.75	3/4"	12' (6'+6')	3600	CBR2236TKUL
1"	0.98	1"	8' (4'+4')	2400	CBR2524TKUL
1"	0.98	1"	10' (5'+5')	3000	CBR2530TKUL
1"	0.98	1"	12' (6'+6')	3600	CBR2536TKUL



Coupler for Ground Rod

Driving Bolt

Nominal Thread Size (Inch)	E-Code
1/2"	CC0012TUL
9/16"	CC0916TUL
5/8"	CC0058TUL
3/4"	CC0034TUL
1"	CC0001TUL

Thread Size (Inch)	E-Code
1/2"	DB0012
9/16"	DB0916
5/8"	DB0058
3/4"	DB0034
1"	DB0001

Note:

1. Coupler should be use with the respective rod (thread) size.
2. Coupler can be provided separately on request.

Copper Bonded Ground Rods (Unthreaded)

AXIS Copper Bonded Ground Rods have a core of high tensile low carbon steel with each rod made by molecularly bonding 99.9% Pure Electrolytic Copper. These rods are tested in accordance to UL 467 and IEC 62561-2 Standard.



Ground Rod Data					E-Code
Nominal Rod Dia (Inch)	Actual Rod Dia (Inch)	Nominal Thread Size (Inch)	Total Length (Feet)	Total Length (mm)	
1/2"	0.50	9/16"	8'	2400	CBR1424PUL
1/2"	0.50	9/16"	10'	3000	CBR1430PUL
1/2"	0.50	9/16"	12'	3600	CBR1436PUL
5/8"	0.56	5/8"	8'	2400	CBR1624PUL
5/8"	0.56	5/8"	10'	3000	CBR1630PUL
5/8"	0.56	5/8"	12'	3600	CBR1636PUL
5/8"	0.63	5/8"	8'	2400	CBR1824PUL
5/8"	0.63	5/8"	10'	3000	CBR1830PUL
5/8"	0.63	5/8"	12'	3600	CBR1836PUL
3/4"	0.68	3/4"	8'	2400	CBR2024PUL
3/4"	0.68	3/4"	10'	3000	CBR2030PUL
3/4"	0.68	3/4"	12'	3600	CBR2036PUL
3/4"	0.75	3/4"	8'	2400	CBR2224PUL
3/4"	0.75	3/4"	10'	3000	CBR2230PUL
3/4"	0.75	3/4"	12'	3600	CBR2236PUL
1"	0.98	1"	8'	2400	CBR2524PUL
1"	0.98	1"	10'	3000	CBR2530PUL
1"	0.98	1"	12'	3600	CBR2536PUL

Note:

1. Coupler can be provided separately on request.
2. Different lengths can be provided on request.

Copper Bonded Ground Rods (Unthreaded) Kit



The Axis Copper Bonded Ground Rod Kit includes 2 Grounds and 1 Coupler. This kit is UL Listed as a set.

Ground Rod Data				E-code
Nominal Rod Dia (Inch)	Actual Rod Dia (Inch)	Total Length (Feet)	Total Length (mm)	
1/2"	0.50	8' (4'+4')	2400	CBR1424PKUL
1/2"	0.50	10' (5'+5')	3000	CBR1430PKUL
1/2"	0.50	12' (6'+6')	3600	CBR1436PKUL
5/8"	0.56	8' (4'+4')	2400	CBR1624PKUL
5/8"	0.56	10' (5'+5')	3000	CBR1630PKUL
5/8"	0.56	12' (6'+6')	3600	CBR1636PKUL
3/4"	0.68	8' (4'+4')	2400	CBR2024PKUL
3/4"	0.68	10' (5'+5')	3000	CBR2030PKUL
3/4"	0.68	12' (6'+6')	3600	CBR2036PKUL
1"	0.98	8' (4'+4')	2400	CBR2524PKUL
1"	0.98	10' (5'+5')	3000	CBR2530PKUL
1"	0.98	12' (6'+6')	3600	CBR2536PKUL



COUPLERS PRESS FIT FOR UNTHREADED RODS

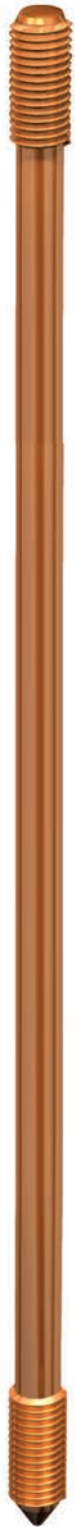
Made up of Copper Alloy

Nominal Size (Inch)	E-Code
1/2"	CC0916PUL
5/8"	CC0058PUL
3/4"	CC0034PUL
1"	CC0001PUL

Note:

1. Coupler should be used with the respective rod size.
2. Coupler can be provided separately on request.

Solid Copper Ground Rods (Threaded)



AXIS Solid Copper Ground Rods are made from high conductivity hard drawn copper. They are ideally suited to soil conditions that are very corrosive, such as soil with high salt & moisture content. These rods are also available with tin plating in order to reduce the risk of oxidation & thus increasing shelf life. Threads on the rods are normally formed by a roll threading process giving strength to the threads & eliminating risk of chipping of threads while driving the rod into the ground. These rods are tested in accordance to UL 467 and IEC 62561-2 Standard.

Ground Rod Data					E-Code
Nominal Rod Dia (Inch)	Actual Rod Dia (Inch)	Nominal Thread Size (Inch)	Total Length (Feet)	Total Length (mm)	
1/2"	0.50	1/2"	8'	2400	ARC1224TUL
1/2"	0.50	1/2"	10'	3000	ARC1230TUL
1/2"	0.50	1/2"	12'	3600	ARC1236TUL
1/2"	0.50	9/16"	8'	2400	ARC1424TUL
1/2"	0.50	9/16"	10'	3000	ARC1430TUL
1/2"	0.50	9/16"	12'	3600	ARC1436TUL
5/8"	0.56	5/8"	8'	2400	ARC1624TUL
5/8"	0.56	5/8"	10'	3000	ARC1630TUL
5/8"	0.56	5/8"	12'	3600	ARC1636TUL
5/8"	0.63	5/8"	8'	2400	ARC1824TUL
5/8"	0.63	5/8"	10'	3000	ARC1830TUL
5/8"	0.63	5/8"	12'	3600	ARC1836TUL
3/4"	0.68	3/4"	8'	2400	ARC2024TUL
3/4"	0.68	3/4"	10'	3000	ARC2030TUL
3/4"	0.68	3/4"	12'	3600	ARC2036TUL
3/4"	0.75	3/4"	8'	2400	ARC2224TUL
3/4"	0.75	3/4"	10'	3000	ARC2230TUL
3/4"	0.75	3/4"	12'	3600	ARC2236TUL
1"	0.98	1"	8'	2400	ARC2524TUL
1"	0.98	1"	10'	3000	ARC2530TUL
1"	0.98	1"	12'	3600	ARC2536TUL

Note:

1. Coupler can be provided separately on request.
2. Different lengths can be provided on request.

Solid Copper Ground Rods (Threaded) Kit



The Axis Solid Copper Ground Rod Kit includes 2 Grounds and 1 Coupler. This kit is UL Listed as a set.

Ground Rod Data					E-Code
Nominal Rod Dia (Inch)	Actual Rod Dia (Inch)	Nominal Thread Size (Inch)	Total Length (Feet)	Total Length (mm)	
1/2"	0.50	1/2"	8' (4'+4')	2400	ARC1224TKUL
1/2"	0.50	1/2"	10' (5'+5')	3000	ARC1230TKUL
1/2"	0.50	1/2"	12' (6'+6')	3600	ARC1236TKUL
1/2"	0.50	9/16"	8' (4'+4')	2400	ARC1424TKUL
1/2"	0.50	9/16"	10' (5'+5')	3000	ARC1430TKUL
1/2"	0.50	9/16"	12' (6'+6')	3600	ARC1436TKUL
5/8"	0.56	5/8"	8' (4'+4')	2400	ARC1624TKUL
5/8"	0.56	5/8"	10' (5'+5')	3000	ARC1630TKUL
5/8"	0.56	5/8"	12' (6'+6')	3600	ARC1636TKUL
5/8"	0.63	5/8"	8' (4'+4')	2400	ARC1824TKUL
5/8"	0.63	5/8"	10' (5'+5')	3000	ARC1830TKUL
5/8"	0.63	5/8"	12' (6'+6')	3600	ARC1836TKUL
3/4"	0.68	3/4"	8' (4'+4')	2400	ARC2024TKUL
3/4"	0.68	3/4"	10' (5'+5')	3000	ARC2030TKUL
3/4"	0.68	3/4"	12' (6'+6')	3600	ARC2036TKUL
3/4"	0.75	3/4"	8' (4'+4')	2400	ARC2224TKUL
3/4"	0.75	3/4"	10' (5'+5')	3000	ARC2230TKUL
3/4"	0.75	3/4"	12' (6'+6')	3600	ARC2236TKUL
1"	0.98	1"	8' (4'+4')	2400	ARC2524TKUL
1"	0.98	1"	10' (5'+5')	3000	ARC2530TKUL
1"	0.98	1"	12' (6'+6')	3600	ARC2536TKUL



Coupler For Ground Rod

Driving Bolt

Nominal Thread Size (Inch)	E-Code
1/2"	CC0012TUL
9/16"	CC0916TUL
5/8"	CC0058TUL
3/4"	CC0034TUL
1"	CC0001TUL

Thread Size (Inch)	E-Code
1/2"	DB0012
9/16"	DB0916
5/8"	DB0058
3/4"	DB0034
1"	DB0001

Note:

1. Coupler should be use with the respective rod (thread) size.
2. Coupler can be provided separately on request.

Solid Copper Ground Rods (Unthreaded)



AXIS Solid Copper Ground Rods are made from high conductivity hard drawn copper. They are ideally suited to soil conditions that are very corrosive, such as soil with high salt & moisture content. These rods are also available with tin plating in order to reduce the risk of oxidation & thus increasing shelf life. These rods are tested in accordance to UL 467 and IEC 62561-2 Standard.



Ground Rod Data				E-Code
Nominal Rod Dia (Inch)	Actual Rod Dia (Inch)	Total Length (Feet)	Total Length (mm)	
1/2"	0.50	8'	2400	ARC1424PUL
1/2"	0.50	10'	3000	ARC1430PUL
1/2"	0.50	12'	3600	ARC1436PUL
5/8"	0.56	8'	2400	ARC1624PUL
5/8"	0.56	10'	3000	ARC1630PUL
5/8"	0.56	12'	3600	ARC1636PUL
5/8"	0.63	8'	2400	ARC1824PUL
5/8"	0.63	10'	3000	ARC1830PUL
5/8"	0.63	12'	3600	ARC1836PUL
3/4"	0.68	8'	2400	ARC2024PUL
3/4"	0.68	10'	3000	ARC2030PUL
3/4"	0.68	12'	3600	ARC2036PUL
3/4"	0.75	8'	2400	ARC2224PUL
3/4"	0.75	10'	3000	ARC2230PUL
3/4"	0.75	12'	3600	ARC2236PUL
1"	0.98	8'	2400	ARC2524PUL
1"	0.98	10'	3000	ARC2530PUL
1"	0.98	12'	3600	ARC2536PUL

Note:

1. Coupler can be provided separately on request.
2. Different lengths can be provided on request.

Solid Copper Ground Rods (Unthreaded) Kit



The Axis Solid Copper Ground Rod Kit includes 2 Grounds and 1 Coupler. This kit is UL Listed as a set.

Ground Rod Data				E-Code
Nominal Rod Dia (Inch)	Actual Rod Dia (Inch)	Total Length (Feet)	Total Length (Feet)	
1/2"	0.50	8' (4'+4')	2400	ARC1424PKUL
1/2"	0.50	10' (5'+5')	3000	ARC1430PKUL
1/2"	0.50	12' (6'+6')	3600	ARC1436PKUL
5/8"	0.56	8' (4'+4')	2400	ARC1624PKUL
5/8"	0.56	10' (5'+5')	3000	ARC1630PKUL
5/8"	0.56	12' (6'+6')	3600	ARC1636PKUL
3/4"	0.68	8' (4'+4')	2400	ARC2024PKUL
3/4"	0.68	10' (5'+5')	3000	ARC2030PKUL
3/4"	0.68	12' (6'+6')	3600	ARC2036PKUL
1"	0.98	8' (4'+4')	2400	ARC2524PKUL
1"	0.98	10' (5'+5')	3000	ARC2530PKUL
1"	0.98	12' (6'+6')	3600	ARC2536PKUL



COUPLERS PRESS FIT FOR UNTHREADED RODS

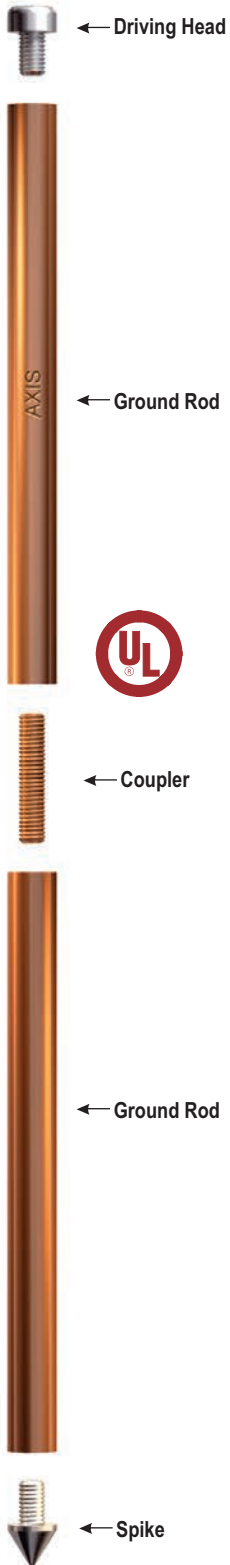
Made up of Copper Alloy

Nominal Size (Inch)	E-Code
1/2"	CC0916PUL
5/8"	CC0058PUL
3/4"	CC0034PUL
1"	CC0001PUL

Note:

1. Coupler should be use with the respective rod (thread) size.
2. Coupler can be provided separately on request.

Solid Copper Ground Rods (Internal Threaded)



Rod Dia (mm)	Rod Dia (Inch)	Total Length (Feet)	Total Length (mm)	Coupler, Driving Stud & Spike Thread Size (Metric)	E-Code
14	0.55	8' (4'+4')	2400	M10	SCR1424KUL
		10' (5'+5')	3000		SCR1430KUL
		12' (6'+6')	3600		SCR1436KUL
15	0.59	8' (4'+4')	2400	M10	SCR1524KUL
		10' (5'+5')	3000		SCR1530KUL
		12' (6'+6')	3600		SCR1536KUL
16	0.63	8' (4'+4')	2400	M10	SCR1624KUL
		10' (5'+5')	3000		SCR1630KUL
		12' (6'+6')	3600		SCR1636KUL
20	0.79	8' (4'+4')	2400	M12	SCR2024KUL
		10' (5'+5')	3000		SCR2030KUL
		12' (6'+6')	3600		SCR2036KUL
25	0.98	8' (4'+4')	2400	M14	SCR2524KUL
		10' (5'+5')	3000		SCR2530KUL
		12' (6'+6')	3600		SCR2536KUL



SPIKE

Thread Size in Metric	E-Code
M10	DS0010
M12	DS0012
M14	DS0014

INTERNAL COUPLING DOWEL

Thread Size in Metric	E-Code
M10	DC0010
M12	DC0012
M14	DC0014

DRIVING HEAD

Thread Size in Metric	E-Code
M10	DH0010
M12	DH0012
M14	DH0014