

HV Underground Connectors

Tapered end tinned aluminum connectors offer several key advantages for underground utility applications, particularly in high-voltage and harsh environmental conditions.

Features & Benefits:

1. Corrosion Resistance

Tin plating over aluminum provides a barrier against oxidation and galvanic corrosion, which is critical in moist, underground, or chemically aggressive environments.

Helps maintain long-term electrical performance and mechanical integrity.

2. Enhanced Compatibility with Copper

Tin plating allows safe and reliable connections between aluminum conductors and copper components (e.g., lugs or bus bars) by preventing galvanic corrosion that typically occurs between dissimilar metals.

3. Improved Electrical Conductivity

The tapered end design ensures a smooth transition and optimal surface contact area, reducing resistance and minimizing hot spots or overheating.

Better conductivity leads to lower energy loss and improved efficiency.

4. Easier Cable Insertion & Installation

The tapered entry simplifies the insertion of stranded or solid aluminum conductors, making installation faster and reducing the chance of conductor damage.

Particularly useful when dealing with large, stiff underground cables.

5. Secure Mechanical Fit

The tapered shape allows for better compression, improving the mechanical grip and reducing the risk of loosening due to thermal cycling or vibration.

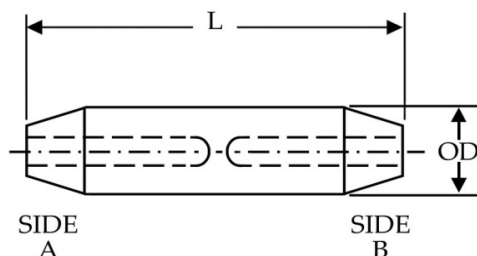
6. Cost-Effective Alternative

Aluminum is more economical than copper, and tin plating adds performance benefits without significantly raising cost. Ideal for utilities balancing performance, longevity, and budget.

7. UL / ANSI / IEEE Compliance

Many tapered tinned aluminum connectors are designed to meet utility standards for underground use, ensuring code compliance and reliability in long-term service.

If you're selecting a connector for a specific underground application (e.g., splicing, terminating, or grounding), the tapered and tinned design helps ensure electrical reliability and longevity under stress—whether thermal, mechanical, or environmental.



HV Underground Connectors

Catalog No.	Code	Connector O.D. (inch)	Length (inch)	Conductor Size				Recommended Crimping Tools and Dies			
				Side A	Side B	Side A	Side B	Die Index	Tool Y35 Dies	Tool Y45L* Dies	Tool Y48B Dies
ACC-07-028	37-47-635	0.90	4.50	#2	#2	Ø7.92mm	Ø7.92mm	298	U28ART (3)	U28ART (3)	C28AR (2)
ACC-07-017	37-47-164	0.90	4.50	#2	1/0	Ø7.92mm	Ø9.98mm				
ACC-07-027	37-47-166	0.90	4.50	#2	2/0	Ø7.92mm	Ø11.13mm				
ACC-07-031	37-19-060	0.90	4.50	#2 SOL	#2	Ø7.06mm	Ø7.92mm				
ACC-07-029	37-47-201	0.90	4.50	#2 SOL	1/0	Ø7.06mm	Ø9.98mm				
ACC-07-011	37-19-061	0.90	4.50	#2 SOL	1/0 CMPR	Ø7.06mm	Ø9.70mm				
ACC-07-030	37-19-062	0.90	4.50	#2 SOL	2/0	Ø7.06mm	Ø11.13mm				
ACC-07-113	37-19-663	0.90	4.50	1/0	1/0	Ø9.98mm	Ø9.98mm				
ACC-07-010	37-19-058	0.90	4.50	1/0	2/0	Ø9.98mm	Ø11.13mm				
ACC-07-033	37-19-001	0.90	4.50	1/0 CMPR	1/0	Ø9.70mm	Ø9.98mm				
ACC-07-035	37-19-000	0.90	4.50	1/0 CMPR	1/0 CMPR	Ø9.70mm	Ø9.70mm				
ACC-07-034	37-19-065	0.90	4.50	1/0 CMPR	2/0	Ø9.70mm	Ø11.13mm				
ACC-07-104	37-19-517	0.90	4.50	#2 CPT	#2 CPT	Ø7.17mm	Ø7.17mm				
ACC-07-114	37-19-519	0.90	4.50	#2 CPT	1/0	Ø7.17mm	Ø9.98mm				
ACC-07-115		0.90	5.00	4/0 CPT	2/0 PILC	Ø12.57mm	Ø10.82mm				
ACC-07-047	37-19-063	0.90	5.00	#2 SOL	4/0 CMPR	Ø7.06mm	Ø13.51mm				
ACC-07-014	37-19-660	0.90	5.00	1/0	4/0	Ø9.98mm	Ø13.92mm				
ACC-07-037	37-19-012	0.90	5.00	1/0	4/0 CPT	Ø9.98mm	Ø12.57mm				
ACC-07-043	37-19-003	0.90	5.00	1/0 CMPR	4/0	Ø9.70mm	Ø13.92mm				
ACC-07-020	37-47-638	0.90	5.00	2/0	2/0	Ø11.13mm	Ø11.13mm				
ACC-07-039	37-47-172	0.90	5.00	2/0	4/0	Ø11.13mm	Ø13.92mm				
ACC-07-040	37-19-067	0.90	5.00	2/0	4/0 CMPR	Ø11.13mm	Ø13.51mm				
ACC-07-009	37-19-057	0.90	5.00	2/0	4/0 CPT	Ø11.13mm	Ø12.57mm				
ACC-07-015	37-19-661	0.90	5.00	4/0	4/0	Ø13.92mm	Ø13.92mm				
ACC-07-012	37-19-068	0.90	5.00	4/0 CMPR	4/0	Ø13.51mm	Ø13.92mm				
ACC-07-045	37-19-021	0.90	5.00	4/0 CPT	4/0	Ø12.57mm	Ø13.92mm				
ACC-07-002	37-19-020	0.90	5.00	4/0 CPT	4/0 CPT	Ø12.57mm	Ø12.57mm				
ACC-07-106	37-19-529	0.90	5.00	4/0 CPT	#2 CPT	Ø12.57mm	Ø7.17mm				
ACC-07-046	37-19-322	1.30	6.00	500	500	Ø21.16mm	Ø21.16mm	300 M	U34ART (4) UM (2)	U34ART (4) UM (2)	C34AR (2)
ACC-07-055	37-20-041	1.30	6.00	#2	350 CPT	Ø7.92mm	Ø16.66mm				
ACC-07-025	37-19-064	1.30	6.00	#2 SOL	350 CPT	Ø7.06mm	Ø16.66mm				
ACC-07-042	37-47-180	1.30	6.00	1/0	500	Ø9.98mm	Ø21.16mm				
ACC-07-048	37-20-039	1.30	6.00	1/0	350 CPT	Ø9.98mm	Ø16.66mm				
ACC-07-049	37-19-014	1.30	6.00	1/0	500 CMPR	Ø9.98mm	Ø20.55mm				
ACC-07-050	37-19-013	1.30	6.00	1/0	500 CPT	Ø9.98mm	Ø19.20mm				
ACC-07-057	37-19-006	1.30	6.00	1/0 CMPR	500	Ø9.70mm	Ø21.16mm				
ACC-07-058	37-20-040	1.30	6.00	1/0 CMPR	350 CPT	Ø9.70mm	Ø16.66mm				
ACC-07-059	37-19-005	1.30	6.00	1/0 CMPR	500 CMPR	Ø9.70mm	Ø20.55mm				
ACC-07-060	37-19-004	1.30	6.00	1/0 CMPR	500 CPT	Ø9.70mm	Ø19.20mm				
ACC-07-051	37-20-036	1.30	6.00	2/0	350 CPT	Ø11.13mm	Ø16.66mm				
ACC-07-016	37-20-038	1.30	6.00	350 CPT	500	Ø16.66mm	Ø21.16mm				
ACC-07-062	37-20-034	1.30	6.00	350 CPT	350 CPT	Ø16.66mm	Ø16.66mm				

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Catalog No.	Code	Connector O.D. (inch)	Length (inch)	Conductor Size				Recommended Crimping Tools and Dies			
				Side A	Side B			Burndy			
								Die Index	Tool Y35 Dies	Tool Y45L* Dies	Tool Y48B Dies
ACC-07-063	37-20-033	1.30	6.00	350 CPT	500 CPT	Ø16.66mm	Ø19.20mm	300 M	U34ART (4) UM (2)	U34ART (4) UM (2)	C34AR (2)
ACC-07-052	37-47-182	1.30	6.00	4/0	500	Ø13.92mm	Ø21.16mm				
ACC-07-021	37-20-035	1.30	6.00	4/0	350 CPT	Ø13.92mm	Ø16.66mm				
ACC-07-054	37-19-031	1.30	6.00	4/0	500 CMPR	Ø13.92mm	Ø20.55mm				
ACC-07-003	37-19-030	1.30	6.00	4/0	500 CPT	Ø13.92mm	Ø19.20mm				
ACC-07-013	37-19-069	1.30	6.00	4/0 CMPR	500	Ø13.51mm	Ø21.16mm				
ACC-07-065	37-20-042	1.30	6.00	4/0 CMPR	350 CPT	Ø13.51mm	Ø16.66mm				
ACC-07-066	37-19-024	1.30	6.00	4/0 CPT	500	Ø12.57mm	Ø21.16mm				
ACC-07-067	37-19-023	1.30	6.00	4/0 CPT	500 CMPR	Ø12.57mm	Ø20.55mm				
ACC-07-068	37-19-022	1.30	6.00	4/0 CPT	500 CPT	Ø12.57mm	Ø19.20mm				
ACC-07-026	37-19-041	1.30	6.00	500 CMPR	500 CMPR	Ø20.55mm	Ø20.55mm				
ACC-07-006	37-19-042	1.30	6.00	500 CMPR	500	Ø20.55mm	Ø21.16mm				
ACC-07-001	37-09-580	1.30	6.00	500 CPT	500	Ø19.20mm	Ø21.16mm	01 608	-	S39ART (6) ***	C39AR (2) C608 (2)
ACC-07-032	37-19-035	1.30	6.00	500 CPT	500 CMPR	Ø19.20mm	Ø20.55mm				
ACC-07-019	37-47-750	1.30	6.00	500 CPT	500 CPT	Ø19.20mm	Ø19.20mm				
ACC-07-069	37-47-189	1.60	7.00	500	750	Ø21.16mm	Ø25.88mm				
ACC-07-070	37-19-665	1.60	7.00	500	750 CPT	Ø21.16mm	Ø23.57mm				
ACC-07-071	37-47-186	1.60	7.00	1/0	750	Ø9.98mm	Ø25.88mm				
ACC-07-072	37-19-015	1.60	7.00	1/0	750 CPT	Ø9.98mm	Ø23.57mm				
ACC-07-075	37-19-008	1.60	7.00	1/0 CMPR	750	Ø9.70mm	Ø25.88mm				
ACC-07-076	37-19-007	1.60	7.00	1/0 CMPR	750 CPT	Ø9.70mm	Ø23.57mm				
ACC-07-077	37-20-043	1.60	7.00	350 CPT	750 CPT	Ø19.20mm	Ø23.57mm				
ACC-07-073	37-47-187	1.60	7.00	4/0	750	Ø13.92mm	Ø25.88mm				
ACC-07-074	37-19-664	1.60	7.00	4/0	750 CPT	Ø13.92mm	Ø23.57mm				
ACC-07-078	37-19-026	1.60	7.00	4/0 CPT	750	Ø12.57mm	Ø25.88mm				
ACC-07-079	37-19-025	1.60	7.00	4/0 CPT	750 CPT	Ø12.57mm	Ø23.57mm				
ACC-07-080	37-19-044	1.60	7.00	500 CMPR	750	Ø20.55mm	Ø25.88mm				
ACC-07-081	37-19-043	1.60	7.00	500 CMPR	750 CPT	Ø20.55mm	Ø23.57mm				
ACC-07-005	37-19-037	1.60	7.00	500 CPT	750	Ø19.20mm	Ø25.88mm				
ACC-07-004	37-19-036	1.60	7.00	500 CPT	750 CPT	Ø19.20mm	Ø23.57mm				
ACC-07-018	37-47-190	1.60	7.50	750	750	Ø25.88mm	Ø25.88mm				
ACC-07-024	37-47-198	1.60	7.50	750 CPT	750	Ø23.57mm	Ø25.88mm				
ACC-07-022	37-47-749	1.60	7.50	750 CPT	750 CPT	Ø23.57mm	Ø23.57mm				
ACC-07-023	37-47-194	1.85	7.00	500	1000	Ø21.16mm	Ø29.77mm	302 292	-	S44ART (6) *** S292(6) ***	C44AR (2) C292
ACC-07-082	37-19-048	1.85	7.00	500	1,000 CMPR	Ø21.16mm	Ø28.88mm				
ACC-07-083	37-19-666	1.85	7.00	500	1,000 CPT	Ø21.16mm	Ø27.43mm				
ACC-07-084	37-19-019	1.85	7.00	1/0	1000	Ø9.98mm	Ø29.77mm				
ACC-07-085	37-19-018	1.85	7.00	1/0	1,000 CMPR	Ø9.98mm	Ø28.88mm				

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								Die Index	Tool Y35 Dies	Tool Y45L* Dies	Tool Y48B Dies
ACC-07-086	37-19-017	1.85	7.00	1/0	1,000 CPT	Ø9.98mm	Ø27.43mm	302 292	-	S44ART (6)*** S292(6)***	C44AR (2) C292
ACC-07-090	37-19-010	1.85	7.00	1/0 CMPR	1,000 CMPR	Ø9.70mm	Ø28.88mm				
ACC-07-091	37-19-009	1.85	7.00	1/0 CMPR	1,000 CPT	Ø9.70mm	Ø27.43mm				
ACC-07-087	37-47-192	1.85	7.00	4/0	1000	Ø13.92mm	Ø29.77mm				
ACC-07-088	37-19-033	1.85	7.00	4/0	1,000 CMPR	Ø13.92mm	Ø28.88mm				
ACC-07-089	37-19-032	1.85	7.00	4/0	1,000 CPT	Ø13.92mm	Ø27.43mm				
ACC-07-092	37-19-029	1.85	7.00	4/0 CPT	1000	Ø12.57mm	Ø29.77mm				
ACC-07-093	37-19-028	1.85	7.00	4/0 CPT	1,000 CMPR	Ø12.57mm	Ø28.88mm				
ACC-07-094	37-19-027	1.85	7.00	4/0 CPT	1,000 CPT	Ø12.57mm	Ø27.43mm				
ACC-07-095	37-19-047	1.85	7.00	500 CMPR	1000	Ø20.55mm	Ø29.77mm				
ACC-07-100	37-19-046	1.85	7.00	500 CMPR	1,000 CMPR	Ø20.55mm	Ø28.88mm				
ACC-07-096	37-19-045	1.85	7.00	500 CMPR	1,000 CPT	Ø20.55mm	Ø27.43mm				
ACC-07-097	37-19-040	1.85	7.00	500 CPT	1000	Ø19.20mm	Ø29.77mm				
ACC-07-098	37-19-039	1.85	7.00	500 CPT	1,000 CMPR	Ø19.20mm	Ø28.88mm				
ACC-07-099	37-19-038	1.85	7.00	500 CPT	1,000 CPT	Ø19.20mm	Ø27.43mm				
ACC-07-101	37-47-195	1.85	7.50	750	1000	Ø25.88mm	Ø29.77mm				
ACC-07-102	37-19-052	1.85	7.50	750	1,000 CMPR	Ø25.88mm	Ø28.88mm				
ACC-07-103	37-19-051	1.85	7.50	750	1,000 CPT	Ø25.88mm	Ø27.43mm				
ACC-07-061	37-47-200	1.85	7.50	1000	1000	Ø29.77mm	Ø29.77mm				
ACC-07-036	37-19-054	1.85	7.50	1,000 CPT	1000	Ø27.43mm	Ø29.77mm				
ACC-07-038	37-19-053	1.85	7.50	1,000 CPT	1,000 CMPR	Ø27.43mm	Ø28.88mm				
ACC-07-041	37-47-751	1.85	7.50	1,000 CPT	1,000 CPT	Ø27.43mm	Ø27.43mm				
ACC-07-064	37-19-056	1.85	7.50	1,000 CMPR	1000	Ø28.88mm	Ø29.77mm				
ACC-07-008	37-19-055	1.85	7.50	1,000 CMPR	1,000 CMPR	Ø28.88mm	Ø28.88mm				
ACC-07-044	37-19-667	1.85	7.50	750 CPT	1000	Ø23.57mm	Ø29.77mm				
ACC-07-007	37-19-050	1.85	7.50	750 CPT	1,000 CMPR	Ø23.57mm	Ø28.88mm				
ACC-07-053	37-19-049	1.85	7.50	750 CPT	1,000 CPT	Ø23.57mm	Ø27.43mm				

內徑精度: ±0.005mm

外徑精度: ±0.01mm

長度精度: ±0.01mm