

Bimetallic Lug Connector for Aluminum to Copper Transition

These bimetallic lugs are used for transition connections of aluminum or aluminum alloy cables to copper ends of electrical equipment in low voltage systems. They provide a reliable electrical connection between dissimilar metals.



Overview

High-Performance Bimetallic Transition Lugs

These ATL bimetallic lugs are engineered for the critical transition connection between aluminum or aluminum alloy cables and copper electrical equipment terminals. By utilizing a friction-welded construction of high-purity aluminum and copper, they effectively eliminate galvanic corrosion in low-voltage applications. Each lug comes pre-filled with jointing compound and features clear barrel markings to ensure precise and reliable crimping every time.

Material & Construction

Material Composition

99.5 %

Aluminum Purity (Al)

99.9 %

Copper Purity (Cu)

Corrosion Protection

- Epoxy resin applied on copper-aluminum contact area
- Pre-filled with jointing compound
- Friction welding prevents galvanic oxidation

Manufacturing Process

Friction welded barrel with copper palm

Technical Specifications

Application Range

Low voltage transition for Al/Al-alloy cables to copper terminals

Crimping Standard

Compatible with DIN standard crimping dies

Product Range (Small to Medium)

Type	Conductor Size (mm ²)	Dimensions				Stud Size	Pack(pcs)	Crimping Die
		L(mm)	d(mm)	D(mm)	B(mm)			
ATL16-8	16	52	5.8	12	22	M8	160x8	DL12
ATL16-10		52	5.8	12	25	M10		
ATL25-8	25	60	6.8	12	22	M8	160x8	DL12
ATL25-10		60	6.8	12	25	M10		
ATL35-8	35	67	8	14	22	M8	80x8	DL14
ATL35-10		67	8	14	25	M10		
ATL35-12		67	8	14	30	M12		
ATL50-8	50	72	9.8	16	25	M8	50x8	DL16
ATL50-10		72	9.8	16	27	M10		
ATL50-12		72	9.8	16	30	M12		
ATL70-8	70	86	11.2	18.5	28	M8	40x8	DL18
ATL70-10		86	11.2	18.5	29	M10		
ATL70-12		86	11.2	18.5	32	M12		

Detailed dimensions and crimping die requirements for 16mm² to 70mm² conductor sizes.

Small to Medium Conductor Sizes

Type	Conductor Size (mm ²)	Stud Size	Length (mm)	Die Recommendation
ATL16-8/10	16	M8/M10	52	DL12
ATL25-8/10	25	M8/M10	60	DL12
ATL35-8/10/12	35	M8/M10/M12	67	DL14
ATL50-8/10/12	50	M8/M10/M12	72	DL16
ATL70-8/10/12	70	M8/M10/M12	86	DL18

Product Range (Large)

ATL95-10	95	90	13.2	22	32	M10	25x8	DL22
ATL95-12		90	13.2	22	35	M12		
ATL95-16	120	90	13.2	22	37.5	M16	60x4	DL22
ATL120-10		91	14.7	23	34	M10		
ATL120-12		91	14.7	23	35	M12		
ATL150-10	150	103	16.3	25	35	M10	30x4	DL25
ATL150-12		103	16.3	25	35	M12		
ATL150-16		103	16.3	25	41	M16		
ATL185-12	185	106	18.3	28.5	40	M12	30x4	DL28
ATL185-16		106	18.3	28.5	42	M16		
ATL240-12	240	116	21	32	45	M12	16x4	DL32
ATL240-16		116	21	32	45	M16		
ATL300-16		124	23.3	34	51	M16		
ATL300-20	300	124	23.3	34	51	M20	16x4	-

Specifications for heavy-duty applications ranging from 95mm² up to 300mm² conductors.

Large Conductor Sizes

Type	Conductor Size (mm ²)	Stud Size	Inner Diameter (mm)	Die Recommendation
ATL95	95	M10/M12/M16	13.2	DL22
ATL120	120	M10/M12	14.7	DL22
ATL150	150	M10/M12/M16	16.3	DL25
ATL185	185	M12/M16	18.3	DL28
ATL240	240	M12/M16	21	DL32
ATL300	300	M16/M20	23.3	N/A

Installation Features

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Clear Barrel Markings, Pre-filled Compound, DIN Compatible, Easy Alignment