

Bimetallic Connector for Aluminum to Copper Cable Transition

These bimetallic connectors facilitate the transition between aluminum and copper cables in medium voltage applications. They are designed to prevent galvanic corrosion at the connection point.



Product Overview

Bimetallic Connector Overview

These bimetallic connectors are engineered for the reliable intermediate transition between aluminum or aluminum alloy cables and copper cables in medium voltage applications. Utilizing a high-strength friction welding process, they ensure optimal electrical conductivity and mechanical integrity. Each unit is prefilled with jointing compound to enhance longevity and performance in demanding electrical infrastructure.

Materials & Compliance

Al e 99.5%, Cu e 99.9%, DIN 46329 (Al), DIN 46235 (Cu)

Key Features

Core Features

- Oil blocking structure for enhanced safety
- Friction welded for superior strength
- Clear barrel markings for precise crimping
- Prefilled with jointing compound

Technical Specifications

Connector Type	Al Cable Size	Cu Cable Size	Length (mm)	Al Dia (mm)	Cu Dia (mm)	Al Dia (mm)	Cu Dia (mm)	Al Dia (mm)	Cu Dia (mm)	Al Dia (mm)	Cu Dia (mm)	Al Dia (mm)	Cu Dia (mm)
GTLD-AL70/CU25	AL70	CU25	79	11.2	18	7	10	60x4	DL18	DT10			
GTLD-AL70/CU35	AL70	CU35	79	11.2	18	8.2	12.5	60x4	DL18	DT12			
GTLD-AL70/CU50	AL70	CU50	85	11.2	18	10	14.5	60x4	DL18	DT14			
GTLD-AL70/CU70	AL70	CU70	85	11.2	18	11.5	16.5	50x4	DL18	DT16			
GTLD-AL70/CU95	AL70	CU95	95	11.2	18	13.5	19	50x4	DL18	DT18			
GTLD-AL70/CU120	AL70	CU120	99	11.2	18	15.5	21	30x4	DL18	DT20			

Technical diagram illustrating connector dimensions and crimping die requirements for various conductor sizes.

Connector Type	Al Cable Size	Cu Cable Size	Length (mm)	Al Dia (mm)	Cu Dia (mm)	Al Dia (mm)	Cu Dia (mm)	Al Dia (mm)	Cu Dia (mm)	Al Dia (mm)	Cu Dia (mm)	Al Dia (mm)	Cu Dia (mm)
GTLD-AL150/CU120	AL150	CU120	107.5	16.3	25	15.5	21	20x8	DL25	DT20			
GTLD-AL150/CU150	AL150	CU150	114	16.3	25	17	23.5	20x8	DL25	DT22			
GTLD-AL185/CU50	AL185	CU50	99	18.3	28.5	10	14.5	40x4	DL28	DT14			
GTLD-AL185/CU95	AL185	CU95	108	18.3	28.5	13.5	19	35x4	DL28	DT18			
GTLD-AL185/CU120	AL185	CU120	108	18.3	28.5	15.5	21	35x4	DL28	DT20			
GTLD-AL185/CU150	AL185	CU150	113	18.3	28.5	17	23.5	30x4	DL28	DT22			
GTLD-AL185/CU185	AL185	CU185	116	18.3	28.5	19	25.5	30x4	DL28	DT25			
GTLD-AL240/CU50	AL240	CU50	110	21	32	10	14.5	25x4	DL32	DT14			
GTLD-AL240/CU70	AL240	CU70	111	21	32	11.5	16.5	25x4	DL32	DT16			
GTLD-AL240/CU95	AL240	CU95	119	21	32	13.5	19	25x4	DL32	DT18			
GTLD-AL240/CU120	AL240	CU120	119	21	32	15.5	21	25x4	DL32	DT20			
GTLD-AL240/CU150	AL240	CU150	124	21	32	17	23.5	25x4	DL32	DT22			
GTLD-AL240/CU185	AL240	CU185	127	21	32	19	25.5	25x4	DL32	DT25			
GTLD-AL240/CU240	AL240	CU240	128	21	32	21.5	29	25x4	DL32	DT28			
GTLD-AL300/CU185	AL300	CU185	127	23.3	34	19	25.5	20x4	-	DT25			
GTLD-AL300/CU240	AL300	CU240	128	23.3	34	21.5	29	20x4	-	DT28			
GTLD-AL300/CU300	AL300	CU300	134	23.3	34	24.5	32	15x4	-	DT32			

Specification chart for larger conductor transitions, detailing length, diameter, and compatible crimping dies.

Connector Dimensions & Crimping Guide

Type	Length (mm)	Al Crimping Die	Cu Crimping Die
GTLD-AL10/CU10	55	DL10	DT6
GTLD-AL25/CU25	61	DL12	DT10
GTLD-AL50/CU50	79.5	DL16	DT14
GTLD-AL95/CU95	95	DL22	DT18
GTLD-AL150/CU150	114	DL25	DT22
GTLD-AL240/CU240	128	DL32	DT28