

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