

Bimetallic Wire Connector

This bimetallic connector facilitates the transition between aluminum and copper cables in medium-voltage applications. It utilizes friction welding and an oil-blocking structure for secure connections.



Overview

Bimetallic Connector Overview

These GTL bimetallic connectors are engineered for the reliable transition connection between aluminium or aluminium alloy cables and copper cables. Featuring a specialized oil-blocking structure and friction-welded design, they effectively prevent galvanic corrosion in medium-voltage electrical systems. Each connector comes pre-filled with jointing compound to ensure optimal conductivity and longevity in power transmission and distribution applications.

Technical Specifications

Key Features

Oil blocking structure • Friction welded • Prefilled with jointing compound • Clear crimping markings

Material Purity

Al e 99.5%, Cu e 99.9%

Application Data

Type	Conductor Size (mm ²)	Dimensions					Pack (pcs)	Crimping Die	
		L (mm)	d (mm)	D (mm)	d1 (mm)	D1 (mm)		Al	Cu
GTL-AL16/CU10	AL16/CU10	66.5	5.6	16	4.5	6	100x8	ML10-35	DT6
GTL-AL25/CU10	AL25/CU10	66.5	6.4	16	4.5	6	100x8	ML10-35	DT6
GTL-AL25/CU16	AL25/CU16	72.5	6.4	16	5.5	8.5	100x8	ML10-35	DT8
GTL-AL35/CU16	AL35/CU16	72.5	8.5	16	5.5	8.5	80x8	ML10-35	DT8
GTL-AL35/CU25	AL35/CU25	72.5	8.5	16	7	10	80x8	ML10-35	DT10
GTL-AL50/CU25	AL50/CU25	75	9.0	20	7	10	50x8	ML50-95	DT10
GTL-AL50/CU35	AL50/CU35	75	9.0	20	8.2	12.5	50x8	ML50-95	DT12
GTL-AL70/CU35	AL70/CU35	75	10.9	20	8.2	12.5	50x8	ML50-95	DT12
GTL-AL70/CU50	AL70/CU50	81	10.9	20	10	14.5	50x8	ML50-95	DT14
GTL-AL70/CU70	AL70/CU70	83	10.9	20	11.5	16.5	30x8	ML50-95	DT16
GTL-AL70/CU120	AL70/CU120	91	10.9	20	15.5	21	30x8	ML50-95	DT20
GTL-AL95/CU50	AL95/CU50	81	12.4	20	10	14.5	45x8	ML50-95	DT14
GTL-AL95/CU70	AL95/CU70	83	12.4	20	11.5	16.5	45x8	ML50-95	DT16

Technical dimensions and crimping requirements for smaller gauge bimetallic connectors.

Type	Conductor Size (mm ²)	Dimensions					Pack (pcs)	Crimping Die	
		L (mm)	d (mm)	D (mm)	d1 (mm)	D1 (mm)		Al	Cu
GTL-AL185/CU95	AL185/CU95	107	17	32	13.5	19	25x4	ML185-240	DT18
GTL-AL185/CU120	AL185/CU120	107	17	32	15.5	21	25x4	ML185-240	DT20
GTL-AL185/CU150	AL185/CU150	112	17	32	17	23.5	25x4	ML185-240	DT22
GTL-AL240/CU95	AL240/CU95	107	19.5	32	13.5	16.5	25x4	ML185-240	DT18
GTL-AL240/CU120	AL240/CU120	107	19.5	32	15.5	19	25x4	ML185-240	DT20
GTL-AL240/CU150	AL240/CU150	112	19.5	32	17	23.5	25x4	ML185-240	DT22
GTL-AL240/CU185	AL240/CU185	115	19.5	32	19	25.5	25x4	ML185-240	DT25
GTL-AL240/CU240	AL240/CU240	116	19.5	32	21.5	29	25x4	ML185-240	DT28
GTL-AL300/CU185	AL300/CU185	152.5	23.2	40	19	25.5	12x4	ML300-400	DT25
GTL-AL300/CU240	AL300/CU240	153.5	23.2	40	21.5	29	12x4	ML300-400	DT28
GTL-AL300/CU300	AL300/CU300	159.5	23.2	40	24.5	32	12x4	ML300-400	DT32
GTL-AL400/CU240	AL400/CU240	153.5	26	40	21.5	29	12x4	ML300-400	DT28
GTL-AL400/CU300	AL400/CU300	159.5	26	40	24.5	32	12x4	ML300-400	DT32

Technical dimensions and crimping requirements for heavy-duty bimetallic connectors.

Standard Connector Specifications (Small Range)

Type	Length (mm)	Crimping Die
GTL-AL16/CU10	66.5	DT6
GTL-AL25/CU16	72.5	DT8
GTL-AL35/CU25	72.5	DT10
GTL-AL50/CU35	75	DT12
GTL-AL70/CU70	83	DT16
GTL-AL95/CU70	83	DT16

Heavy Duty Connector Specifications

Type	Length (mm)	Crimping Die
GTL-AL185/CU95	107	DT18
GTL-AL240/CU150	112	DT22
GTL-AL300/CU300	159.5	DT32
GTL-AL400/CU300	159.5	DT32