MG CONNECTOR

Example of connection between copper magnet wire and wire via MG connector

Discrete wire

Discrete wire

Tab-on terminal

Contact

Terminal (without tabs)

Terminal (with tabs)

Copper magnet wire

Copper magnet wire

Housing

Housing
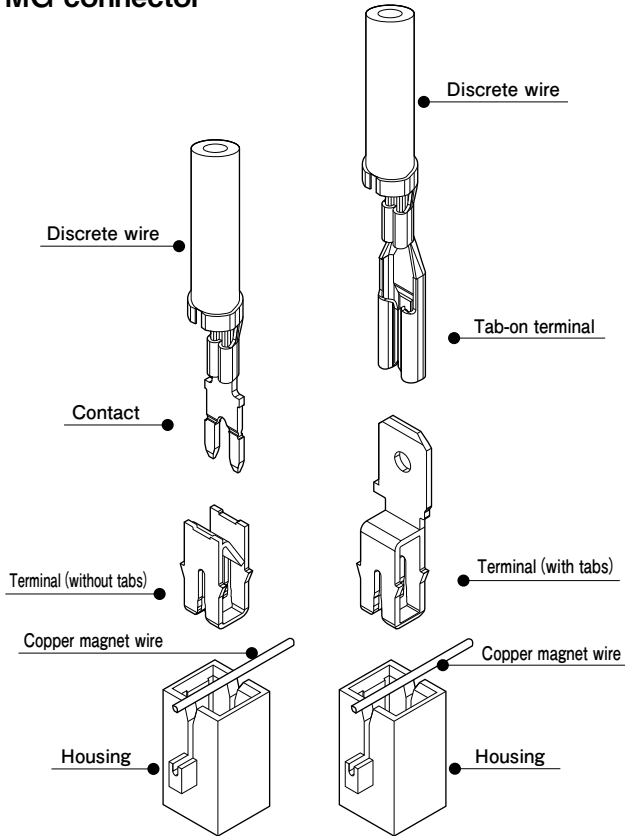
This is a terminal for connecting the terminal part of the copper magnet wire.
Various types of insulating coated wires can be connected easily and efficiently.

- No need to remove insulating coating in advance
- High quality and high reliability
- For the connection of discrete wires, general-purpose tab-on terminals are also available in addition to the dedicated contact.
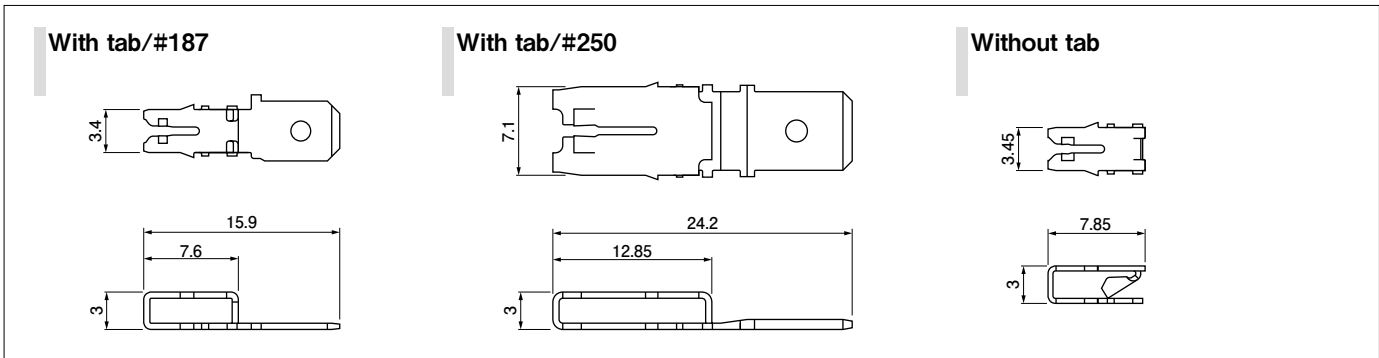
■ Standards

®:Recognized E 70188

∗ In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
∗ RoHS2 compliance
∗ Dimensional unit: mm
∗ Contact JST for details.

MG CONNECTOR

Terminal

With tab/#187

3.4

15.9

7.6

3

With tab/#250

7.1

24.2

12.85

3

Without tab

3.45

7.85

3

Terminal type		Model No.	Applicable magnet wire range (Reference)		Q'ty/reel	Applicable tab-on terminal & contact (Reference)
			AWG#	O.D. (mm)		
With tab	#187 (for 0.5 mm thick tab)	**MGT-10T-187**	27 to 23	0.36 to 0.57	10,000	STO-( )T-187N SFO-41T-187N
		MGT-15T-187	22 to 20	0.64 to 0.81	10,000	
		MGT-24T-187	19 to 16	0.91 to 1.29	10,000	
	#250 (for 0.8 mm thick tab)	***MGT-24T-250**	19 to 16	0.91 to 1.29	5,000	STO-( )T-250N SFO-61T-250A
Without tab		***MGT-10TN**	27 to 23	0.36 to 0.57	10,000	SMG-21T
		***MGT-15TN**	22 to 20	0.64 to 0.81	10,000	
		***MGT-24TN**	19 to 17	0.91 to 1.15	10,000	

Material and Finish
Copper alloy, copper-undercoated, tin-plated

**RoHS2 compliance** MGT-( )T-187 displays (SN) on a label.
Note: 1. The applicable magnet wire size above serves as a basic guideline.
　　　　　Before use, performance of this connector must be tested with the wire and housing that is to be used.
　　　 2. Please contact JST for the applicable terminals other than those listed in this table.
　　　 3. *Marked products are unlisted in UL.

Contact

3.45

1.5

13.45

6

3.15

1.5
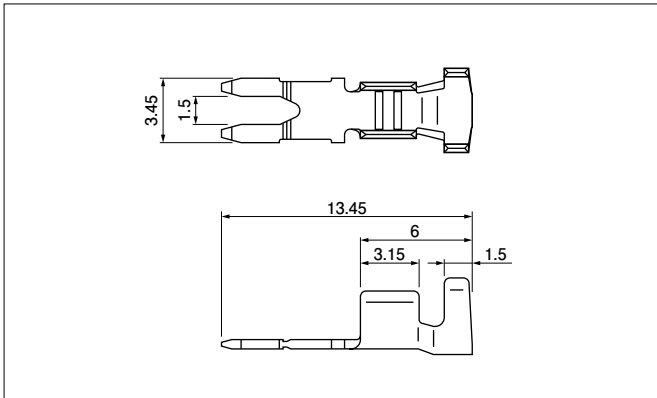
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/reel
	mm²	AWG #		
***SMG-21T**	0.33 to 0.83	22 to 18	1.5 to 2.9	6,000

Material and Finish
Copper alloy, copper-undercoated, tin-plated

RoHS2 compliance
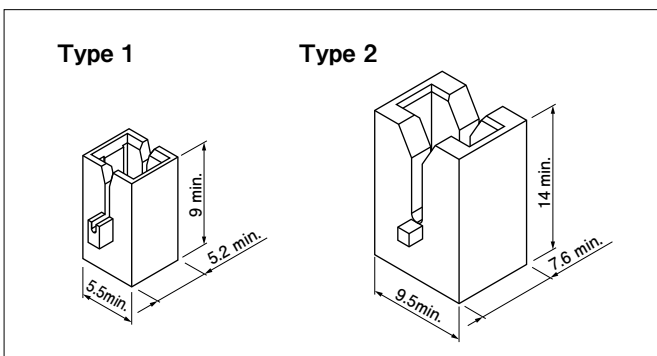Note: *Marked products is unlisted in UL.

Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SMG-21T	AP-K2N	MKS-L	APLMK SMG21
			APLMK SMG21-B

Note: Contact JST for fully automatic crimping applicator.

Recommended housing

Type 1

9 min.

5.2 min.

5.5min.

Type 2

14 min.

7.6 min.

9.5min.

Housing type	Applicable terminal	Material and Finish
Type 1	MGT-10T-187	Glass filled engineering plastics
	MGT-15T-187	
	MGT-24T-187	
	*MGT-10TN	
	*MGT-15TN	
	*MGT-24TN	
Type 2	*MGT-24T-250	

Note: 1. Contact JST for details.
　　　 2. *Marked products are unlisted in UL.