8546.**

UP-FIT SERIES · 4.20 MM UP-FIT CONNECTIONS

Description

Wire size range changed on May-2025.

For reference previous wire range was:

Wire size mm² (AWG): 0,2-0,8 (24-18)

This change did not affect the terminal drawing or geometry.

Specification

4.20 mm UP-FIT Female Terminals

Wire size mm² (AWG)

0,3-0,8 (22-18)

Ø Insulation (mm)

1-2,75

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (ºC)
8546.01	Brass	Pre-tin-plated	120
8546.31	Bronze	Pre-tin-plated	130

Material thickness (mm)

0,2

Compatible connectors

242M12**, 242M22**, 242M23**, 242M24**, 242M25**, 242M26**, 242M28**

Counterpart

7545.**; 7546.**; 7547.**

Insertion / Withdrawal forces

	8546.01 / 31
1st Insertion (max)	5N[1]
1st Withdrawal (min)	1N[1]

[1] Valid for UP-FIT Series

Application tool

MN7546

Crimping parameters & pull out force

Wire section (±10%)	Conductor		Insulator	Pull-out force (N)
	Height (mm)	Width (mm)	Width (mm)	
18 AWG	0.95 (±0.05)	1.65 (±0.05)	max, 3.00mm	89N @ 60s
20 AWG	0.90 (±0.03)	1.64 (±0.03)	max, 3.00mm	58N @ 60s
22 AWG	0.85 (±0.03)	1.64 (±0.03)	max, 3.00mm	36N @ 60s
24 AWG	0.80 (±0.03)	1.62 (±0.03)	max, 3.00mm	22,3N @ 60s

Values only valid for the application tool specified upwards. The insulator widths are only indicative as they are dependent on the sheath thickness of the wire used.

Winding number

5000

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UP-FIT SERIES · 4.20 MM UP-FIT CONNECTIONS

Approved regulations

Part nr.	Approval	Standard	File	Certified framework
8546.01[1]	UL	UL 1977	E223221	AWG 24-18 / MN8546 - MN7546
8546.31[1]	UL	UL 1977	E223221	AWG 24-18 / MN8546 - MN7546

[1] Cat. No. meets with the standard UL1977 as a component of UP-FIT full connection system.
Rated current and voltage:
2 poles - AWG 24 - 3A/600V (USR, CND)
2 poles - AWG 22 - 4A/600V (USR, CND)
2 poles - AWG 20 - 5A/600V (USR, CND)
2 poles - AWG 18 - 6A/600V (USR, CND)
4 poles - AWG 24 - 3A/600V (USR, CND)
4 poles - AWG 22 - 4A/600V (USR, CND)
4 poles - AWG 20 - 4A/600V (USR, CND)
4 poles - AWG 18 - 6A/600V (USR, CND)
6 poles - AWG 24 - 3A/600V (USR, CND)
6 poles - AWG 22 - 3A/600V (USR, CND)
6 poles - AWG 20 - 4A/600V (USR, CND)
6 poles - AWG 18 - 5A/600V (USR, CND)
8,10 and 12 poles - AWG 24 - 2A/600V (USR, CND)
8,10 and 12 poles - AWG 22 - 3A/600V (USR, CND)
8,10 and 12 poles - AWG 20 - 4A/600V (USR, CND)
8,10 and 12 poles - AWG 18 - 5A/600V (USR, CND)
16 poles - AWG 24 - 2A/600V (USR, CND)
16 poles - AWG 22 - 3A/600V (USR, CND)
16 poles - AWG 20 - 3A/600V (USR, CND)
16 poles - AWG 18 - 4A/600V (USR, CND)

Approvals

RoHS

c UL us

Drawing