

7546.** UP-FIT SERIES - 4.20 MM UP-FIT CONNECTIONS



Specification 4.20 mm UP-FIT male terminals

Wire size mm² (AWG) 0,2-0,8 (18-24)

Ø Insulation (mm) 1-2,75

Counterpart 8545.**; 8546.**; 8547.**

Materials, temperature and contact resistance

| Part nr. | Material | Finishing | Max. Temp. (°C) |
|----------|----------|----------------|-----------------|
| 7546.01 | Brass | Pre-tin-plated | 120 |
| 7546.31 | Bronze | Pre-tin-plated | 130 |

Material thickness (mm) 0,2



Insertion / Withdrawal forces

| | 7546.01 / 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 | 1.65 | max, 3.00mm | 89N @ 60s |
| 20 AWG | 0.90 | 1.64 | max, 3.00mm | 58N @ 60s |
| 22 AWG | 0.85 | 1.64 | max, 3.00mm | 36N @ 60s |
| 24 AWG | 0.80 | 1.62 | 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

Compatible connectors 242F12**, 242F22**, 242F23**, 242F24**, 242F25**, 242F26**, 242F28**, 242FP12**, 242FP22**, 242FP23**, 242FP24**, 242FP25**, 242FP26**, 242FP28**

Approved regulations

| Part nr. | Approval | Standard | File | Certified framework |
|----------------------|----------|----------|---------|-----------------------------|
| 7546.01 ¹ | UL | UL 1977 | E223221 | AWG 24-18 / MN8546 - MN7546 |
| 7546.31 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)

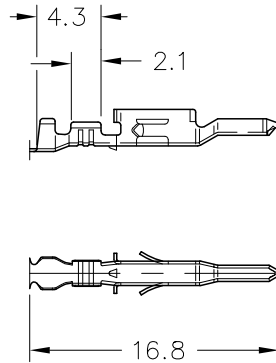
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Approvals



Drawing



Disclaimer

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| Rev. Nr. | Concept | Date | Created/Revised | Approved |
|----------|--|------------|----------------------------|------------------------------|
| A4 | Change company name and logo | 2021-10-21 | Laboratory Dept. | E. Roura (Laboratory Dept.) |
| A3 | Update insulation crimp specifications | 2021-06-08 | Laboratory Dept. | E. Roura (Laboratory Dept.) |
| A2 | Update crimping insulation shape | 2019-12-03 | E.Roura (Laboratory Dept.) | M.Codina (Engineering Dept.) |
| A1 | Datasheet generated automatically [A1] | 2018-08-03 | Laboratory Dept. | E. Roura |

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