

SEK-18 SV FE TYPA ZGL 50P PLS4



Image is for illustration purposes only. Please refer to product description.

| | |
|--------------------|---|
| Part number | 09 18 550 5813 |
| Specification | SEK-18 SV FE TYPA ZGL 50P PLS4 |
| HARTING eCatalogue | https://b2b.harting.com/09185505813 |

Identification

| | |
|----------|------------------|
| Category | Connectors |
| Series | SEK |
| Element | Female connector |

Version

| | |
|--------------------|--|
| Connection type | PCB to cable |
| Number of contacts | 50 |
| Strain relief | With strain relief clamp |
| Details | for IDC flat cable 1.27 mm (0.050") pitch AWG 28/7 - AWG 26/7 |

Technical characteristics

| | |
|------------------------------------|---------------------------|
| Contact rows | 2 |
| Contact spacing (termination side) | 2.54 mm |
| Contact spacing (mating side) | 1.27 mm |
| Rated current | 2.5 A |
| Insulation resistance | $>10^9 \Omega$ |
| Contact resistance | $\leq 20 \text{ m}\Omega$ |
| Limiting temperature | -55 ... +125 °C |
| Insertion and withdrawal force | $\leq 100 \text{ N}$ |
| Performance level | NM 30 (S4) |
| Mating cycles | ≥ 250 |
| Test voltage $U_{r.m.s.}$ | 1 kV |



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Technical characteristics

Isolation group IIIa ($175 \leq \text{CTI} < 400$)

Material properties

| | |
|---|--|
| Material (insert) | Thermoplastic resin (PBT) |
| Colour (insert) | Grey |
| Material (contacts) | Copper alloy |
| Surface (contacts) | Noble metal over Ni Mating side Sn over Ni Termination side |
| Layer thickness | $\geq 0.76 \mu\text{m}$ |
| Layer thickness | $\geq 30 \mu\text{inch}$ |
| Material flammability class acc. to UL 94 | V-0 |
| RoHS | compliant |
| ELV status | compliant |
| China RoHS | e |
| REACH Annex XVII substances | Not contained |
| REACH ANNEX XIV substances | Not contained |
| REACH SVHC substances | Not contained |
| California Proposition 65 substances | Yes |
| California Proposition 65 substances | Antimony trioxide Nickel |
| Requirement set with Hazard Levels | R26 |

Specifications and approvals

| | |
|------------------------|--|
| Specifications | IEC 60603-13 |
| UL / CSA | UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079 |
| Railway classification | F3/I3 |

Commercial data

| | |
|--------------------------------|---------------|
| Packaging size | 100 |
| Net weight | 9.2 g |
| Country of origin | Romania |
| European customs tariff number | 85366990 |
| GTIN | 5713140033801 |

Commercial data

eCl@ss

27460202 PCB connector (conductor connection)

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① Temperature raise
- ② Derating curve
- ③ Derating curve 80%