

SEK-18 SV FE TYPA 40P PL2

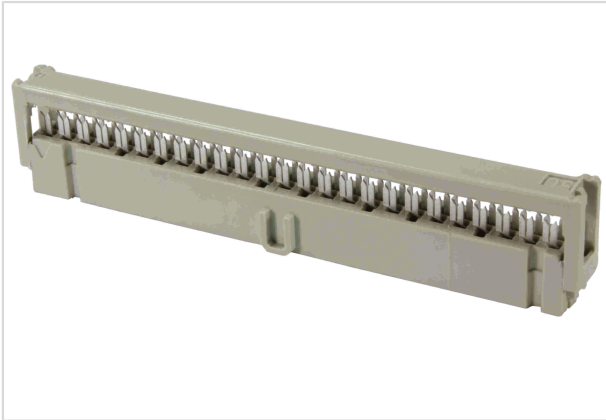


Image is for illustration purposes only. Please refer to product description.

| | |
|--------------------|---|
| Part number | 09 18 540 6803 |
| Specification | SEK-18 SV FE TYPA 40P PL2 |
| HARTING eCatalogue | https://b2b.harting.com/09185406803 |

Identification

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

Version

| | |
|--------------------|--|
| Connection type | PCB to cable |
| Number of contacts | 40 |
| Performance level | 2 |
| 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 | $\leq 80 \text{ N}$ |
| Mating cycles | ≥ 250 |
| Test voltage $U_{r.m.s.}$ | 1 kV |



Pushing Performance

Technical characteristics

| | |
|-----------------|------------------------|
| Isolation group | IIIa (175 ≤ CTI < 400) |
|-----------------|------------------------|

Material properties

| | |
|---|---|
| Material (insert) | Thermoplastic resin (PBT) |
| Colour (insert) | Grey |
| Material (contacts) | Copper alloy |
| Surface (contacts) | Sn over Ni Termination side Au over Ni Mating side |
| Material flammability class acc. to UL 94 | V-0 |
| RoHS | compliant |
| ELV status | compliant |
| China RoHS | e |
| REACH Annex XVII substances | No |
| REACH ANNEX XIV substances | No |
| REACH SVHC substances | No |

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 | 1 g |
| Country of origin | Romania |
| European customs tariff number | 85366990 |
| eCl@ss | 27460202 PCB connector (conductor connection) |



Pushing Performance

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%