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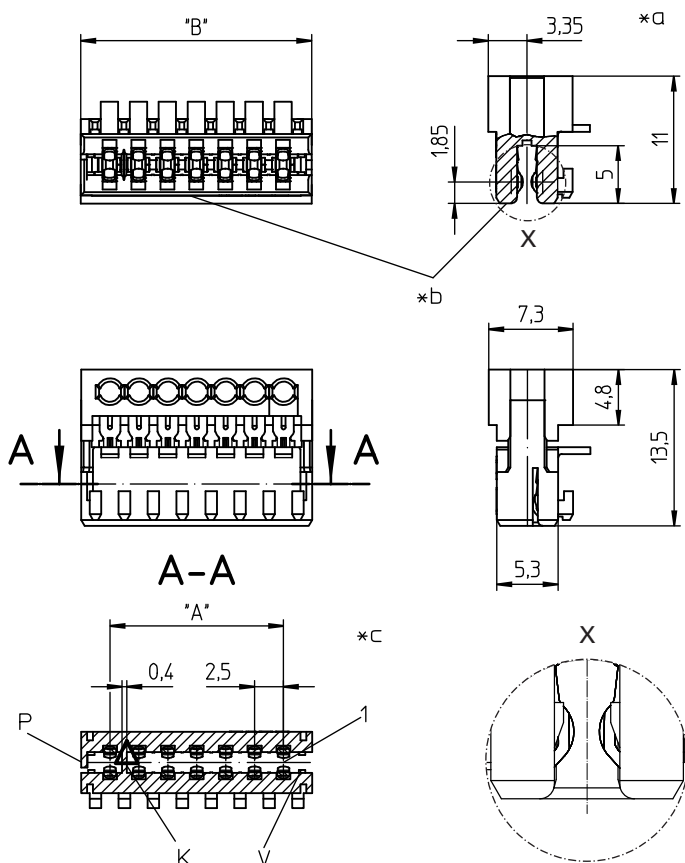
3517-4

RAST 2.5 connectors, pitch 2.5/5.0 mm



RAST 2.5 connector for direct mating, insulation displacement technology (IDT), with locking on printed circuit board by means of enhanced locking toes, alternatively with or without keying rib and closed sides, for individual conductors, daisy chain possible  
contact pitch 2.5 mm

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## Environmental conditions

Temperature range -40 °C/+130 °C<sup>1</sup>

<sup>1</sup> upper limit temperature (insulating body) RTI (electrical) of the UL Yellow Card

## Materials

Insulating body PBT, V-0 according to UL94 – 3517-4 S03V...  
PA, V-2 according to UL94 – 3517-4 M12S03V...<sup>1</sup>

Contact spring CuSn, tin-plated (Sn/Ag) – 3517-4 (M...)S03V03  
CuSn, pre-nickel and gold-plated – 3517-4 (M...)S03V102  
CuSn, tin-plated, with lubricant – 3517-4 (M...)S03V214

<sup>1</sup> M12: component glow wire resistant (GWT 750 °C), testing acc. to IEC 60695-2-11, assessment acc. to IEC 60335-1 (flame < 2 s)

## Mechanical data

Mating with printed circuit board 1.5 ± 0.14 mm

Insertion force/contact ≤ 4,0 N<sup>1</sup>

Withdrawal force/contact ≥ 0,5 N<sup>1</sup>

Retaining force/locking ≥ 13,4 N<sup>2</sup>

Keying proposals at [www.lumberg.com](http://www.lumberg.com) 

<sup>1</sup> measured with a polished steel pin, nominal thickness 1.5 mm

<sup>2</sup> measured with a polished steel gauge, nominal thickness 1.5 mm

## Connectable conductors for IDT area

Construction discrete conductor, notched flat cable 2.5 mm

Section min. 0,14 mm<sup>2</sup>

Section max. 0,38 mm<sup>2</sup>

Insulation diameter ≤ 1,6 mm

Approved cables at [www.lumberg.com](http://www.lumberg.com) 

## Electrical data (at T<sub>amb</sub> 20 °C)

Contact resistance ≤ 5 mΩ

Rated current 4 A (T<sub>amb</sub> 60 °C)  
2 A (T<sub>amb</sub> 100 °C)

Rated voltage 32 V AC

Material group IIIa (IEC)/2 (UL) (CTI ≥ 250)

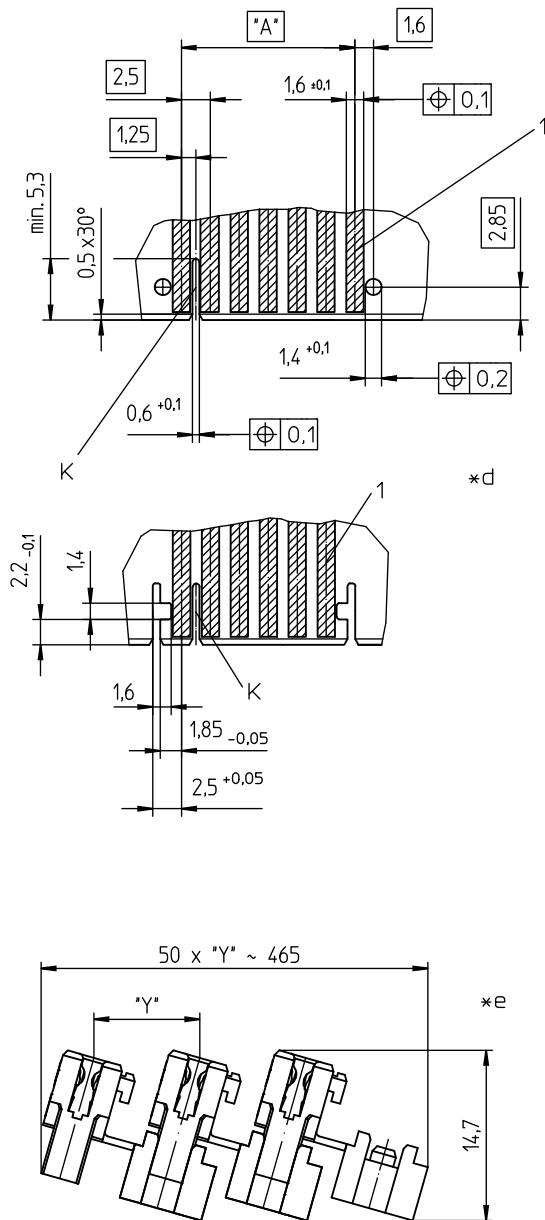
Creepage distance 0,6 mm

Clearance 0,6 mm

Insulation resistance > 1 GΩ

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#### Associated products

##### Harnessing equipment

|                       |                          |                        |
|-----------------------|--------------------------|------------------------|
| ☑ HA3...e             | ☑ HA35e                  | ☑ HA35e-CA             |
| ☑ HA35e-DC            | ☑ HA35e-RK               | ☑ HA35f                |
| ☑ HA35f-CA            | ☑ HA35f-CA-KC            | ☑ HA35f-CA-KC-KT       |
| ☑ HA35f-CA-KC-KT-HV   | ☑ HA35f-HV               | ☑ HA35f-KC             |
| ☑ HA35f-KC-KT         | ☑ HA35f-RK               | ☑ HA35f-RK-CA          |
| ☑ HA35f-RK-CA-KC      | ☑ HA35f-RK-CA-KC-KT      | ☑ HA35f-RK-CA-KC-KT-HV |
| ☑ HZ-M35              | ☑ HZ35                   | ☑ HZ35-K               |
| ☑ KHP35               | ☑ VARICON 7000           | ☑ VARICON 7000-DC      |
| ☑ VARICON 7000-DC-CR  | ☑ VARICON 7000-Eco       | ☑ VARICON 7000-Eco-CR  |
| ☑ VARICON 7000-Inline | ☑ VARICON 7000-Inline-CR | ☑ VARICON 7000-RD      |
| ☑ VARICON 7000-RD-CR  |                          |                        |

- \*a terminated connector
- \*b color marking:  
3517-4 (M...)S01 blue  
3517-4 (M...)S02 green  
3517-4 (M...)S03 brown
- \*c K = keying (alternatively)  
P1, P2 = positioning (alternatively)  
V = lock
- \*d examples for printed circuit board layouts
- \*e chaining of the component parts (state of delivery)

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| Designation | Pole Number | PU (Pieces) | MDQ (Pieces) | Dimensions |        |
|-------------|-------------|-------------|--------------|------------|--------|
|             |             |             |              | A (mm)     | B (mm) |
| 3517-4 02   | 2           | 4950        | 4950         | 2.5        | 7.4    |
| 3517-4 03   | 3           | 3600        | 3600         | 5.0        | 9.9    |
| 3517-4 04   | 4           | 2700        | 2700         | 7.5        | 12.4   |
| 3517-4 05   | 5           | 2250        | 2250         | 10.0       | 14.9   |
| 3517-4 06   | 6           | 1800        | 3600         | 12.5       | 17.4   |
| 3517-4 07   | 7           | 1800        | 3600         | 15.0       | 19.9   |
| 3517-4 08   | 8           | 1350        | 2700         | 17.5       | 22.4   |
| 3517-4 09   | 9           | 1350        | 2700         | 20.0       | 24.9   |
| 3517-4 10   | 10          | 1350        | 2700         | 22.5       | 27.4   |
| 3517-4 11   | 11          | 900         | 2700         | 25.0       | 29.9   |
| 3517-4 12   | 12          | 900         | 2700         | 27.5       | 32.4   |
| 3517-4 13   | 13          | 900         | 2700         | 30.0       | 34.9   |
| 3517-4 14   | 14          | 900         | 2700         | 32.5       | 37.4   |
| 3517-4 15   | 15          | 900         | 2700         | 35.0       | 39.9   |
| 3517-4 16   | 16          | 450         | 2700         | 37.5       | 42.4   |

Designation to be completed by further details (e.g. for keying, color or material options).

**Packaging:**

chained, in a cardboard box