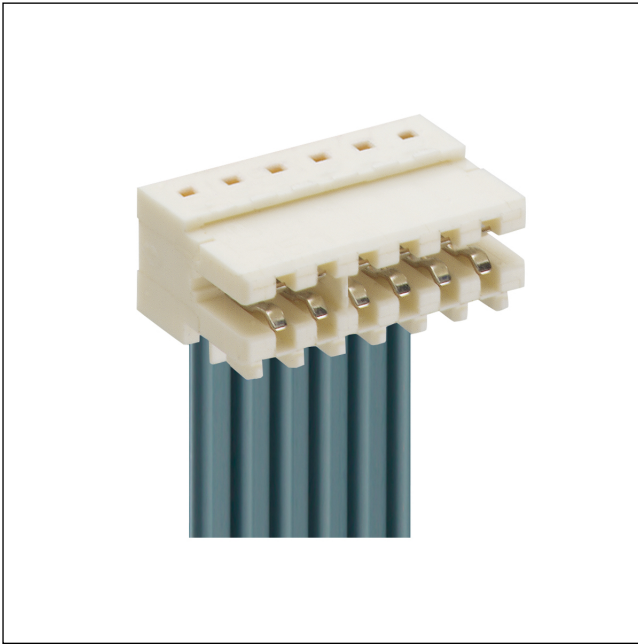


35

3510-2

RAST 2.5 connectors, pitch 2.5/5.0 mm



RAST 2.5 connector for direct mating, insulation displacement technology (IDT), alternatively with or without keying rib and closed sides, for ribbon cable contact pitch 2.5 mm

Approvals:



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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 – 3510-2 (S...V...)  
PA, V-2 according to UL94 – 3510-2 M12(S...V...)<sup>1</sup>

Contact spring CuSn, tin-plated – 3510-2 (M...S...)  
CuSn, tin-plated (Sn/Ag), 2-9 poles – 3510-2 (M...S...)V03  
CuSn, pre-nickel and gold-plated – 3510-2 (M...S...)V102

<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

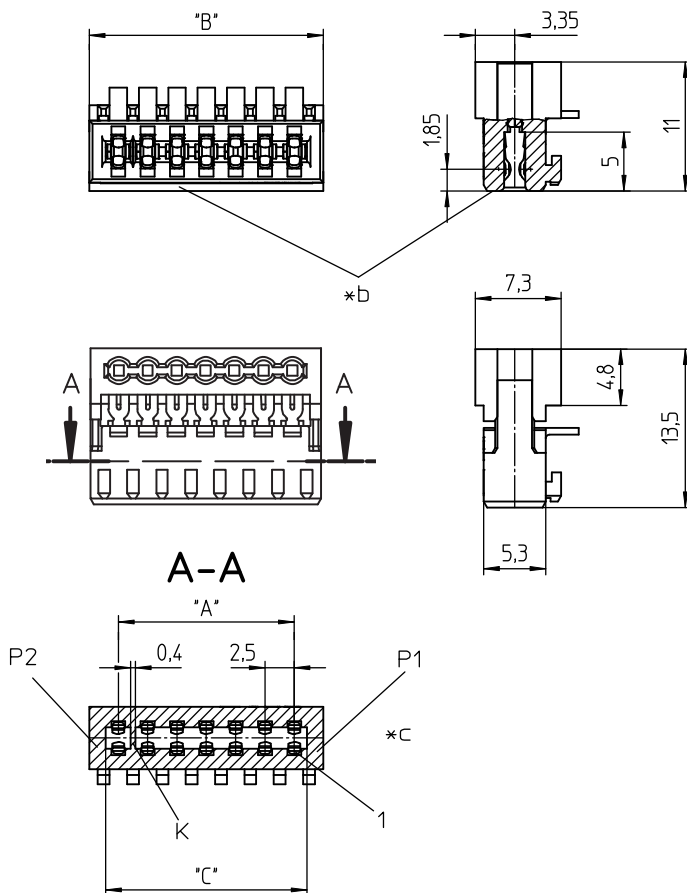
Mating with printed circuit board 1.5 ± 0.14 mm  
Insertion force/contact ≤ 4,0 N  
Withdrawal force/contact ≥ 0,5 N  
Keying proposals at [www.lumberg.com](http://www.lumberg.com) 

## Connectable conductors for IDT area

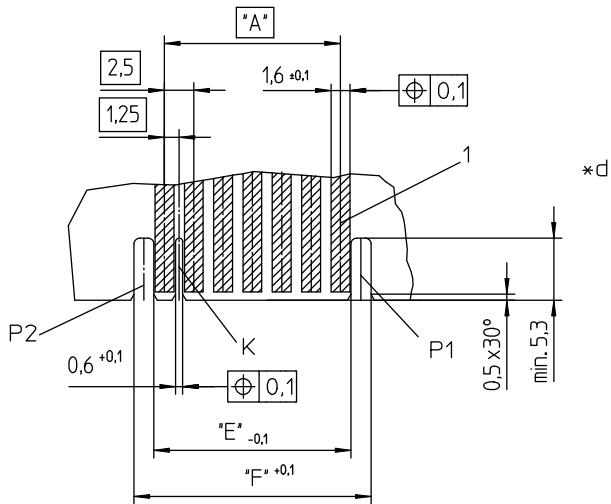
Construction discrete conductor, flat cable 2.5 mm  
Section min. 0,14 mm<sup>2</sup>  
Section max. 0,38 mm<sup>2</sup>  
Insulation diameter ≤ 1,6 mm  
Approved cables at [www.lumberg.com](http://www.lumberg.com) 

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

Contact resistance ≤ 5 mΩ  
Rated current 4 A (T<sub>sub</sub>>U</sub> 60 °C)  
2 A (T<sub>sub</sub>>U</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



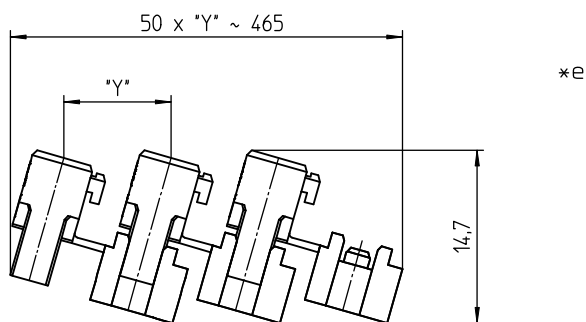
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## Associated products

### Harnessing equipment

|                   |                   |                      |
|-------------------|-------------------|----------------------|
| HA3...e           | HA35-CA           | HA35e                |
| HA35e-CA          | 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-RD      |



- \*a terminated connector
- \*b color marking:  
3510-2 (M...)S01 blue  
3510-2 (M...)S02 green  
3510-2 (M...)S03 brown
- \*c K = keying (alternatively)  
P1, P2 = positioning (alternatively)
- \*d example for printed circuit board layout
- \*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) | C (mm) | E (mm) | F (mm) |
| 3510-2 02   | 2           | 4950        | 4950         | 2.5        | 7.4    | 4.5    | 4.45   | 7.6    |
| 3510-2 03   | 3           | 3600        | 7200         | 5.0        | 9.9    | 7.0    | 6.95   | 10.1   |
| 3510-2 04   | 4           | 2700        | 5400         | 7.5        | 12.4   | 9.5    | 9.45   | 12.6   |
| 3510-2 05   | 5           | 2250        | 4500         | 10.0       | 14.9   | 12.0   | 11.95  | 15.1   |
| 3510-2 06   | 6           | 1800        | 3600         | 12.5       | 17.4   | 14.5   | 14.45  | 17.6   |
| 3510-2 07   | 7           | 1800        | 3600         | 15.0       | 19.9   | 17.0   | 16.95  | 20.1   |
| 3510-2 08   | 8           | 1350        | 2700         | 17.5       | 22.4   | 19.5   | 19.45  | 22.6   |
| 3510-2 09   | 9           | 1350        | 2700         | 20.0       | 24.9   | 22.0   | 21.95  | 25.1   |
| 3510-2 10   | 10          | 1350        | 2700         | 22.5       | 27.4   | 24.5   | 24.45  | 27.6   |
| 3510-2 11   | 11          | 900         | 2700         | 25.0       | 29.9   | 27.0   | 26.95  | 30.1   |
| 3510-2 12   | 12          | 900         | 2700         | 27.5       | 32.4   | 29.5   | 29.45  | 32.6   |
| 3510-2 13   | 13          | 900         | 2700         | 30.0       | 34.9   | 32.0   | 31.95  | 35.1   |
| 3510-2 14   | 14          | 900         | 2700         | 32.5       | 37.4   | 34.5   | 34.45  | 37.6   |
| 3510-2 15   | 15          | 900         | 2700         | 35.0       | 39.9   | 37.0   | 36.95  | 40.1   |
| 3510-2 16   | 16          | 450         | 2700         | 37.5       | 42.4   | 39.5   | 39.45  | 42.6   |
| 3510-2 17   | 17          | 450         | 2700         | 40.0       | 44.9   | 42.0   | 41.95  | 45.1   |
| 3510-2 18   | 18          | 450         | 2700         | 42.5       | 47.4   | 44.5   | 44.45  | 47.6   |
| 3510-2 19   | 19          | 450         | 2700         | 45.0       | 49.9   | 47.0   | 46.95  | 50.1   |
| 3510-2 20   | 20          | 450         | 2700         | 47.5       | 52.4   | 49.5   | 49.45  | 52.6   |

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

### Packaging:

chained, in a cardboard box