

As regards RoHS status and lead-free status, this information does only apply to those articles which require every column of the columns for identification. For articles which require more or fewer columns for identification please request our sales department.

For example, the given information applies to F15P12G3 (see second line). But it does not apply to F15P1 or to F15P12G3-0043.

Regarding the lead-free evaluation we also define articles as lead-free when they fall under the exceptions of the RoHS for steel- (max. 0,35 %), copper- (max. 4 %) and aluminium- (max. 0,4 %) alloys.

The date format in this table is day.month.year.

| D-Sub-Standard-Connectors         |                        |        |                |                 | RoHS-conformity                          | Lead-free |
|-----------------------------------|------------------------|--------|----------------|-----------------|------------------------------------------|-----------|
| F/FW/FT/FZ/<br>FTS/FZS/FH/<br>FHT | 09/15/<br>25/37/<br>50 | P/S    | 0 to 82        | G1/G2/G3        | Yes (since 01.01.2005)                   | Yes       |
| FM/FMW/FMT/FM<br>Z/FMTS/<br>FMZS  | 09/15/<br>25/37/<br>50 | P/S    | 0 to 82        | G1/G2/G3        | Not planned; Replacement -K120/-<br>K121 | Yes       |
| FE                                | 09/15/<br>25           | P/S    | 1/21/80        | G1/G2/G3        | Yes (since 01.01.2005)                   | Yes       |
|                                   |                        |        | 1S/21S/<br>80S | G1/G2/G3        | Please require                           |           |
| FL/FLW/FLT/<br>FLZ/FLTS/<br>FLTZ  | 09/15/<br>25/37/<br>50 | P/S    | 7              | -K120/<br>-K121 | Yes (since 01.01.2005)                   | Yes       |
|                                   |                        |        | 7              |                 | Not planned; Replacement -K120/-<br>K121 | Yes       |
| FU/FUW/FUT/FUZ<br>/FUTS/<br>FUZS  | 09/15/<br>25/37/<br>50 | P/S    | 7              |                 | Not planned; Replacement -K120/-<br>K121 | Yes       |
| FAW1/FAW1H                        | SP/PS                  | G1/RG1 | U/M/UM3/MM3    |                 | Yes (since 01.07.2007)                   | Yes       |

| D-Sub-Mixed-Layout Connectors                               |                                                                                                                                                         |                                                                                |                 |                 | RoHS-conformity                      | Lead-free |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------|-----------------|--------------------------------------|-----------|
| F                                                           | 1W1/<br>2W2/<br>3W3/<br>7W7                                                                                                                             | P/S                                                                            |                 |                 | Not planned; Replacement -K120/-K121 | Yes       |
|                                                             |                                                                                                                                                         | P/S                                                                            | -K120/<br>-K121 |                 | Yes (since 01.09.2005)               | Yes       |
|                                                             | 2W2/<br>3W3                                                                                                                                             | P/S                                                                            | C               |                 | Not planned; Replacement -K120/-K121 | Yes       |
|                                                             |                                                                                                                                                         | P/S                                                                            | C               | -K120/<br>-K121 | Yes (since 01.09.2005)               | Yes       |
| FM<br>FMW<br>FMT<br>FMZ<br>FMTS<br>FMZS<br>FH<br>FHW<br>FHZ | 3W3/<br>5W1/<br>5W5/<br>7W2/<br>8W8/<br>9W4/<br>11W1/<br>13W3/<br>13W6/<br>17W2/<br>17W5/<br>21W1/<br>24W7/<br>25W3/<br>27W2/<br>36W4/<br>43W2/<br>47W1 | P/P1/P2/P4/P5/P22/P41<br><br>S/S1/S2/S4/S5/S12/S18/S21/<br>S22/S41             |                 |                 | Not planned; Replacement -K120/-K121 | Yes       |
|                                                             |                                                                                                                                                         | P/P1/P2/P4/P5/P22/<br>P41<br><br>S/S1/S2/S4/S5/S12/<br>S18/<br>S21/<br>S22/S41 | -K120/<br>-K121 |                 | Yes (since 01.07.2006)               | Yes       |
| FL<br>FLW<br>FLT<br>FLZ<br>FLTS<br>FLZS                     | 5W1/<br>7W2/<br>11W1/<br>13W3/<br>13W6/<br>17W2/<br>17W5/<br>21W1/<br>24W7/<br>25W3/<br>27W2/<br>36W4/<br>43W2/<br>47W1                                 | P7/S7                                                                          |                 |                 | Not planned; Replacement -K120/-K121 | Yes       |
|                                                             |                                                                                                                                                         | P7/S7                                                                          | -K120/<br>-K121 |                 | Yes (since 01.01.2005)               | Yes       |
| FU<br>FUW<br>FUT<br>FUZ<br>FUTS<br>FUZS                     | 5W1/<br>7W2/<br>11W1/<br>13W3/<br>17W2/<br>21W1/<br>13W6/<br>17W5/<br>25W3/<br>27W2/<br>24W7/<br>36W4/<br>43W2/<br>47W1                                 | P7/S7                                                                          |                 |                 | Not planned; Replacement -K120/-K121 | Yes       |
|                                                             |                                                                                                                                                         | P7/S7                                                                          | -K120/<br>-K121 |                 | Yes (since 01.12.2006)               | Yes       |

| Waterproof Connectors |           |                        |     |             | RoHS-conformity        | Lead-free |
|-----------------------|-----------|------------------------|-----|-------------|------------------------|-----------|
| FWD                   | F/R       | 09/15/<br>25/37/<br>50 | P/S |             | Yes (since 01.01.2005) | Yes       |
|                       |           |                        | P/S | 18          | Yes (since 01.01.2005) | Yes       |
|                       | FM/<br>RM | 09/15/<br>25/37/<br>50 | P/S |             | Yes (since 01.01.2005) | Yes       |
|                       |           |                        | P/S | 1/4/5/12/25 | Yes (since 01.07.2006) | Yes       |

| SMT-Connectors      |          |     |         |    |  | RoHS-conformity        | Lead-free |
|---------------------|----------|-----|---------|----|--|------------------------|-----------|
| FSLM/FSLT/FSLZ/FSLU | 09/15/25 | P/S | 101/107 | G1 |  | Yes (since 01.01.2005) | Yes       |

| THT D-Sub-Connectors                          |             |     |                                                                         |       | RoHS-conformity | Lead-free |
|-----------------------------------------------|-------------|-----|-------------------------------------------------------------------------|-------|-----------------|-----------|
| FV/FVT/<br>FVU/FVZ/<br>FEV/FEVM/<br>FEVT/FEVU | 09/15/25/37 | P/S | 12S/12SR/<br>16S/21S/<br>21SR/24S/<br>28S/64S/<br>71S/71SR/<br>85S/85SR | G1/G2 | Yes             | Yes       |

| High Density D-Sub Connectors |                                               |     |   | RoHS-conformity        | Lead-free |
|-------------------------------|-----------------------------------------------|-----|---|------------------------|-----------|
| CT/CTH                        | 09-15/<br>15-26/<br>25-44/<br>37-62/<br>50-78 | P/S |   | Yes (since 01.01.2005) | Yes       |
|                               |                                               | P/S | 1 | Yes (since 01.07.2006) | Yes       |
|                               |                                               | P/S | 7 | Yes (since 01.06.2005) | Yes       |

| D-Sub Filterconnectors |              |     |                                   | RoHS-conformity        | Lead-free |
|------------------------|--------------|-----|-----------------------------------|------------------------|-----------|
| FC/FWC/FTC/<br>FZC     | 09/15        | P/S |                                   | Yes (since 01.01.2007) | Yes       |
|                        |              | P/S | 0G1/1/<br>1G1/3/<br>3G1/5/<br>5G1 | Yes (since 01.01.2007) | Yes       |
|                        | 25/37/<br>50 | P/S |                                   | Yes (since 01.01.2007) | Yes       |
|                        |              | P/S | 0G1/1/<br>1G1/3/<br>3G1/5/<br>5G1 | Yes (since 01.01.2007) | Yes       |

| Interface Connectors |                             | RoHS-conformity        | Lead-free |
|----------------------|-----------------------------|------------------------|-----------|
| FBUS                 | CA/CB/CG/CH/CI/<br>NA/NB/NG | Yes (since 01.01.2007) | Yes       |

| D-Sub Low Profile Connectors |             |     |    |               | RoHS-conformity | Lead-free |
|------------------------------|-------------|-----|----|---------------|-----------------|-----------|
| F/FW/FT/FZ/FTS/<br>FZS       | 09/15/25/37 | P/S | 15 | -K49/<br>-K61 | Please require  |           |

| Connectors according to EN 60603-2 (before: DIN 41612) |           | RoHS-conformity | Lead-free |
|--------------------------------------------------------|-----------|-----------------|-----------|
| 27                                                     | All types | Please require  |           |

| Contacts, turned, for Crimp Connectors |       |     |                                              |                                                  | RoHS-conformity        | Lead-free |
|----------------------------------------|-------|-----|----------------------------------------------|--------------------------------------------------|------------------------|-----------|
| FK                                     | 20/22 | P/S | 18/26/-02V/-08V/<br>-13V/L/L18/L26/<br>LE/NM | _0100/_1000/_5000                                | Yes (since 01.10.2004) | Yes       |
|                                        |       |     | 18/26/L/L18/L26/LE/NM                        | -02V/-08V/<br>-13V/_0100/<br>_1000/_5000/<br>/CU | Yes (since 01.10.2004) | Yes       |

|  |  |  |                       |                |                                   |                        |     |
|--|--|--|-----------------------|----------------|-----------------------------------|------------------------|-----|
|  |  |  | 18/26/L/L18/L26/LE/NM | -02V/-08V/-13V | _0100/<br>_1000/<br>_5000/<br>/CU | Yes (since 01.10.2004) | Yes |
|--|--|--|-----------------------|----------------|-----------------------------------|------------------------|-----|

| Coax- and Highpower Contacts |           |     |                                                             | RoHS-conformity        | Lead-free |
|------------------------------|-----------|-----|-------------------------------------------------------------|------------------------|-----------|
| FBD                          | 002 - 006 | P/S | 170B/170M/170MR                                             | Yes (since 01.01.2005) | Yes       |
| FBM                          | 001 - 016 | P/S | 154/170 M/MB/MBE/<br>MG/MR/MRE/<br>MW/U/UR                  | Yes (since 01.12.2004) | Yes       |
| FDS                          | 001 - 024 | P/S | 101/116                                                     | Yes (since 01.07.2006) | Yes       |
|                              |           |     | 102/102R                                                    | Yes (since 01.01.2005) | Yes       |
| FDX                          | 001 - 040 | P/S | 101/116                                                     | Yes (since 01.12.2006) |           |
|                              |           |     | 102/102L/102R                                               | Yes (since 01.01.2005) | Yes       |
| FME                          | 001 - 046 | P/S | 101/101K/101KR/<br>101R/108/108B/<br>108BR/108K/108KR/108R  | Yes (since 01.10.2006) | Yes       |
|                              |           |     | 102/102B/102BR/<br>102C/102H/102HR                          | Yes (since 01.01.2005) | Yes       |
| FMP                          | 001 - 303 | P/S | 103/103B/103C/<br>103K/103M/106/<br>110/117/151/155/<br>159 | Yes (since 01.12.2004) | Yes       |
|                              |           |     | 104/105/105R/115/<br>133/140/140R/141/141R/142              | Yes (since 01.01.2007) | Yes       |
| FMS                          | 001 - 060 | P/S | 101                                                         | Yes (since 01.12.2006) | Yes       |
|                              |           |     | 102/102B/102BR/<br>102C/102H/102HR                          | Yes (since 01.01.2005) | Yes       |
| FMV                          | 001 - 011 | P/S | 106/107/107K                                                | Yes (since 01.12.2004) | Yes       |
| FMX                          | 001 - 078 | P/S | 101/101B/101L/108                                           | Yes (since 01.12.2006) | Yes       |
|                              |           |     | 102/102B/102H/<br>102L/102R                                 | Yes (since 01.01.2005) | Yes       |

| Hoods           |           |                                                                                  | RoHS-conformity        | Lead-free |
|-----------------|-----------|----------------------------------------------------------------------------------|------------------------|-----------|
| F1069           | 1/2/3/4/5 | A/AE/E/S                                                                         | Yes (since 01.07.2006) | Yes       |
| FAH             | 1         | AE/A-2661/E                                                                      | Yes (since 01.01.2005) | Yes       |
| FDH             | 1/2/3/4   | AE                                                                               | Yes (since 01.01.2005) | Yes       |
|                 |           | A/AX/E/GAE/GE/GX                                                                 | Please require         |           |
| FKC             | 1/2       |                                                                                  | Yes (since 01.07.2006) | Yes       |
|                 | 1/2       | E                                                                                | Yes (since 01.10.2005) | Yes       |
|                 | 1/2       | A/AE/AM3/<br>AM3E/AX/<br>AXE                                                     | Yes (since 01.07.2006) | Yes       |
|                 |           | G/GA/GAE/GAM3/GAM3E/<br>GAX/GAXE/GE/<br>GM3E/GX/X/XE                             | Yes (since 01.01.2005) | Yes       |
|                 | 3/4/5     | A/AE/AM3/AM3E/AX/<br>AXE/E/ G/GA/GAE/<br>GAM3/GAM3E/GAX/GAXE/GE/GM3E/G<br>X/X/XE | Yes (since 01.01.2005) | Yes       |
| FKE             | 1/2/3/4   | E/M3E                                                                            | Yes (since 01.01.2006) | Yes       |
| FKI <i>new!</i> | 1/2/3/4/5 | A/G/GA                                                                           | Yes (since 2010)       | Yes       |
| FKH             | 1/2       |                                                                                  | Yes (since 01.07.2006) | Yes       |
|                 | 1/2       | E                                                                                | Yes (since 01.10.2005) | Yes       |
|                 | 1/2       | A/AE/AR/ARE/ARM3/<br>ARM3E/R/RE/RM3E                                             | Yes (since 01.07.2006) | Yes       |
|                 | 3/4/5     |                                                                                  | Yes (since 01.01.2005) | Yes       |
|                 | 3/4/5     | A/AE/AR/ARE/ARM3/<br>ARM3E/E/R/RE/RM3E                                           | Yes (since 01.01.2005) | Yes       |
| FKP             | 1         | A/AE/E                                                                           | Yes (since 01.07.2006) | Yes       |
| FKS             | 1/2/3     |                                                                                  | Yes (since 01.01.2005) | Yes       |
|                 | 1/2/3     | A/AE/AM3/AM3E/E/M3/X                                                             | Yes (since 01.01.2005) | Yes       |
| FMBR            | 1/2/3/4/5 | M3/W2                                                                            | Yes (since 01.06.2007) | Yes       |
| FMH             | 1/2/3/4/5 |                                                                                  | Yes (since 01.01.2005) | Yes       |
|                 | 1/2/3/4/5 | R/RM3                                                                            | Yes (since 01.01.2005) | Yes       |
| FMK             | 1/2/3/4/5 |                                                                                  | Yes (since 01.01.2005) | Yes       |
|                 | 1/2/3/4/5 | G/GM2,5/GM3/GX/M3/X                                                              | Yes (since 01.01.2005) | Yes       |
|                 | 2/5       | GL/GLM3                                                                          | Yes (since 01.01.2005) | Yes       |
|                 | 2         | G7/G7M3                                                                          | Yes (since 01.01.2005) | Yes       |
|                 | 5         | HL/HL-K201                                                                       | Yes (since 01.01.2005) | Yes       |
| FML             | 3         |                                                                                  | Yes (since 01.01.2005) | Yes       |
|                 | 3         | -2399/-2400/-2410                                                                | Yes (since 01.01.2005) | Yes       |
| FMN             | 1/2/3/4/5 | M3                                                                               | Yes (since 01.06.2006) | Yes       |
| FMR             | 3         | G/GM3                                                                            | Yes (since 01.01.2005) | Yes       |

|             |           |                                                       |                        |     |
|-------------|-----------|-------------------------------------------------------|------------------------|-----|
|             |           | 4                                                     | Yes (since 01.01.2005) | Yes |
| FPHF        | 2/3/4     | A/AE/AM3E/E/RE                                        | Yes (since 01.01.2005) | Yes |
| F-PHG/F-PHR | 1/2/3/4/5 | E/S                                                   | Yes (since 01.04.2005) | Yes |
| FPHGR       | 1/2/3/4/5 | A/AE/AG/AGE/AGX/AM3/<br>AM3E/ARE/AX/AXE/E/M3/M3E/X/XE | Yes (since 01.07.2006) | Yes |
| FPHRS       | 3/4       |                                                       | Yes (since 01.01.2005) | Yes |
|             | 3/4       | E/X/XE                                                | Yes (since 01.01.2005) | Yes |
| FWA         | 1/2/5     | G/GA/GAE/GE                                           | Yes (since 01.01.2007) | Yes |
| FWH         | 1/2/3     | A/AE/E                                                | Yes (since 01.07.2006) | Yes |

| Dust Caps |                    |     |                                                                              | RoHS-conformity        | Lead-free |
|-----------|--------------------|-----|------------------------------------------------------------------------------|------------------------|-----------|
| F1042     | -1/-2/-3/-4/<br>-5 | P/S |                                                                              | Yes (since 01.02.2005) | Yes       |
|           |                    | P/S | A/B/K/K1/K1M/<br>K2M/K3/K4/KA/<br>KAH/KM/L/LA/<br>LAH/LB/LM/LR/<br>LRA/LRB/M | Yes (since 01.02.2005) | Yes       |
| FSSK      | 1/2/3              | P/S |                                                                              | Yes (since 01.02.2005) | Yes       |

| Female Screw Lock |                      |  | RoHS-conformity        | Lead-free |
|-------------------|----------------------|--|------------------------|-----------|
| F-GSCH1/5         | -.....SN             |  | Yes (since 01.03.2005) | Yes       |
| F-GSCH1/5         | - all other articles |  | Yes (since 01.07.2006) | Yes       |

| Slide Locks |                | RoHS-conformity        | Lead-free |
|-------------|----------------|------------------------|-----------|
| F-GV        | - all articles | Yes (since 01.07.2006) | Yes       |

| Rubber Bushing |                | RoHS-conformity        | Lead-free |
|----------------|----------------|------------------------|-----------|
| FKT            | - all articles | Yes (since 01.03.2005) | Yes       |

| Knurled Screw |  | RoHS-conformity | Lead-free |
|---------------|--|-----------------|-----------|
|---------------|--|-----------------|-----------|

|        |                                                                                         |                        |     |
|--------|-----------------------------------------------------------------------------------------|------------------------|-----|
| FRS1/5 | -2171/-2172/-K190/-K190M3/<br>-K333/-K333M3/-K364/-K364M3/<br>-K526/-K526M3/M2,5/M3/SER | Yes (since 01.03.2005) | Yes |
|--------|-----------------------------------------------------------------------------------------|------------------------|-----|

| Screw Locks |               | RoHS-conformity        | Lead-free |
|-------------|---------------|------------------------|-----------|
| F-SCHV      | -all articles | Yes (since 01.10.2006) | Yes       |

| Lock Posts for Slide Locking |                     | RoHS-conformity        | Lead-free |
|------------------------------|---------------------|------------------------|-----------|
| F-SGV1/5                     | -.....SN            | Yes (since 01.03.2005) | Yes       |
| F-SGV1/5                     | -all other articles | Yes (since 01.01.2007) | Yes       |

| Locking Screw |                                                                  | RoHS-conformity        | Lead-free |
|---------------|------------------------------------------------------------------|------------------------|-----------|
| FVS1/5        | -2168/-2170/-2545/-K608/-K654/<br>-K1163/-K1163M3/-K1441/M2,5/M3 | Yes (since 01.02.2005) | Yes       |

| Locking Hook |               | RoHS-conformity        | Lead-free |
|--------------|---------------|------------------------|-----------|
| FRH1/5       |               | Yes (since 01.01.2005) | Yes       |
| FRH1/5       | P/<br>P-K1531 | Yes (since 01.01.2005) | Yes       |

| Latch Lock |      | RoHS-conformity        | Lead-free |
|------------|------|------------------------|-----------|
| F-GK1/5    |      | Yes (since 01.07.2005) | Yes       |
| F-GK1/5    | M3/N | Yes (since 01.07.2005) | Yes       |

| Female Standoff Nut |  | RoHS-conformity        | Lead-free |
|---------------------|--|------------------------|-----------|
| F1066               |  | Yes (since 01.07.2006) | Yes       |



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|       |    |                        |     |
|-------|----|------------------------|-----|
| F1066 | M3 | Yes (since 06.07.2006) | Yes |
| F1066 | SN | Yes (since 01.12.2005) | Yes |

| Locknut     |    | RoHS-conformity        | Lead-free |
|-------------|----|------------------------|-----------|
| F62M099S245 |    | Yes (since 01.09.2005) | Yes       |
| F62M099S245 | +S | Yes (since 01.09.2005) | Yes       |