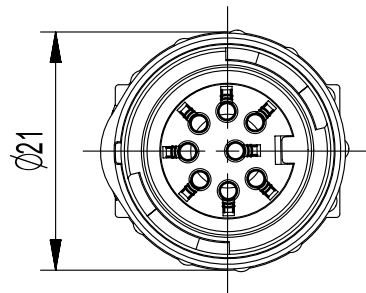
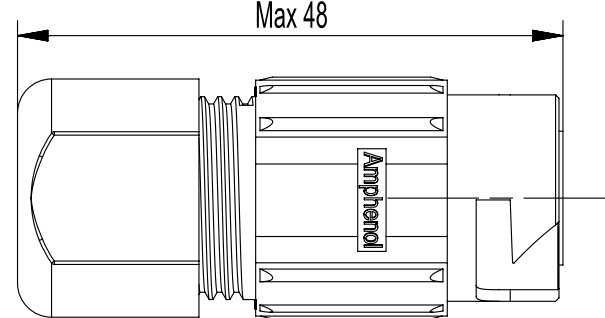
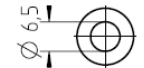
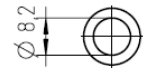
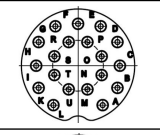
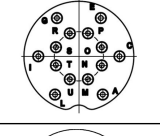
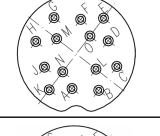
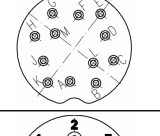
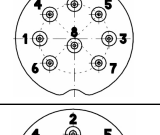
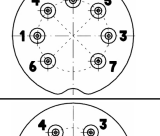
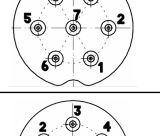
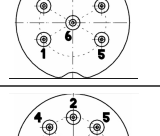
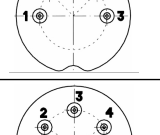
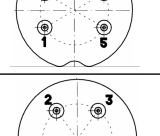
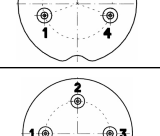


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|                                                                                                                       |                                                                                                                                                                                                                                                                                              |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------|------|-------------------------------|--------|-------|------|------|-------------------------------|----------|------|------|------|--|
| 8                                                                                                                     |                                                                                                                                                                                                                                                                                              | 7                            |                                                                                    | 6                     |                                                                                   | 5    |                               |        |       |      |      |                               |          |      |      |      |  |
| F                                                                                                                     |                                                                                                                                                                                                             |                              |  |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | cable sealings included in versions for 4-8,5mm cable diameter                                                                                                                                                                                                                               |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
| E                                                                                                                     |                                                                                                                                                                                                             |                              | for 4-6mm cable diameter                                                           |                       |  |      | for 6-8,5mm cable diameter    |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | cable sealings included in versions for 8,5-10,5mm cable diameter                                                                                                                                                                                                                            |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
| D                                                                                                                     |                                                                                                                                                                                                             |                              | for 8,5-9,5mm cable diameter                                                       |                       |  |      | for 9,5-10,5mm cable diameter |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       |                                                                                                                                                                                                                                                                                              |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
| C                                                                                                                     | Number of contacts                                                                                                                                                                                                                                                                           |                              | Standard                                                                           |                       | 3                                                                                 | 4    | 5                             | 5      | 6     | 7    | 7    | 8                             | 12       | 14   | 14   | 19   |  |
|                                                                                                                       | Contact arrangement                                                                                                                                                                                                                                                                          |                              | IEC 61076-2-106                                                                    |                       | 03-a                                                                              | 04-a | 05-a                          | 05-b   | 06-a  | 07-a | 07-b | 08-a                          | 12-a     | 14-a | 14-b | 19-a |  |
|                                                                                                                       | Rated voltage                                                                                                                                                                                                                                                                                |                              | IEC 60664-1                                                                        |                       | 150 V                                                                             |      | 100 V                         | 32 V   | 100 V |      | 32 V |                               |          |      |      |      |  |
|                                                                                                                       | Rated impulse withstand voltage                                                                                                                                                                                                                                                              |                              | IEC 60664-1                                                                        |                       | 1500 V                                                                            |      | 800 V                         | 1500 V | 800 V |      |      |                               |          |      |      |      |  |
|                                                                                                                       | Pollution degree                                                                                                                                                                                                                                                                             |                              | IEC 60664-1                                                                        |                       | 3 <sup>1)</sup>                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | Installation category                                                                                                                                                                                                                                                                        |                              | IEC 60664-1                                                                        |                       | I                                                                                 |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | Insulation group                                                                                                                                                                                                                                                                             |                              | IEC 60664-1                                                                        |                       | II, 400 ≤ CTI < 600                                                               |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | Current rating                                                                                                                                                                                                                                                                               |                              | IEC 60512-5-2 UL 1977                                                              |                       | 10A/+40°C                                                                         |      | 7A/+40°C                      |        |       |      |      |                               | 3A/+40°C |      |      |      |  |
|                                                                                                                       | Insulation resistance                                                                                                                                                                                                                                                                        |                              | IEC 60512-3-1                                                                      |                       | >10 <sup>10</sup> Ohm <sup>2)</sup>                                               |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | Contact resistance                                                                                                                                                                                                                                                                           |                              | IEC 60512-2-1                                                                      |                       | < 5m Ohm                                                                          |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | Climatic category                                                                                                                                                                                                                                                                            |                              | IEC 60668-1                                                                        |                       | 40 / 100 / 21                                                                     |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | Temperatur range                                                                                                                                                                                                                                                                             |                              | IEC 60668-1                                                                        |                       | -40°C...+100°C / -40°F...+212°F                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | IP degree                                                                                                                                                                                                                                                                                    |                              | IEC 60529                                                                          |                       | IP 68 (in mated condition)                                                        |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | Insertion and withdrawal force                                                                                                                                                                                                                                                               |                              | IEC 60512-13-2                                                                     |                       | < 60N                                                                             |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | mechanical operation                                                                                                                                                                                                                                                                         |                              | IEC 60512-9-1                                                                      |                       | Silver >500 mating cycles / Gold >1000 mating cycles                              |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | B                                                                                                                                                                                                                                                                                            | housing material             |                                                                                    | thermoplastic         |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       |                                                                                                                                                                                                                                                                                              | dielectric material          |                                                                                    | thermoplastic         |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       |                                                                                                                                                                                                                                                                                              | sealing material             |                                                                                    | Chloroprene           |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       |                                                                                                                                                                                                                                                                                              | contacts                     |                                                                                    | silver or gold plated |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       |                                                                                                                                                                                                                                                                                              | termination technique        |                                                                                    | solder                |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
| wire gauge                                                                                                            |                                                                                                                                                                                                                                                                                              | ≤0,5mm <sup>2</sup> / 20 AWG |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      | ≤0,35mm <sup>2</sup> / 22 AWG |          |      |      |      |  |
| flamability                                                                                                           |                                                                                                                                                                                                                                                                                              | UL 94- VO                    |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
| locking system                                                                                                        |                                                                                                                                                                                                                                                                                              | IEC 61076-2-106              |                                                                                    | Quicklock System      |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       |                                                                                                                                                                                                                                                                                              |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       |                                                                                                                                                                                                                                                                                              |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
| A                                                                                                                     | <sup>1)</sup> designed according pollution degree 2, can be used under pollution degree 3 if the rules according IEC 60664-1 are fulfilled                                                                                                                                                   |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | <sup>2)</sup> under operating conditions > 10 <sup>9</sup> Ohm                                                                                                                                                                                                                               |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | All technical data have been measured in a laboratory environment and can be different during pratical usage of the product. Any product informtion is for descriptive usage only and not legally binding; particularly the information does not constitute or provide any legal guaranties. |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | Do not connect or disconnect under load. Metal housing parts shall be securely incorporated to protected ground.                                                                                                                                                                             |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
|                                                                                                                       | Parts according to directive (EU)2015/863 (RoHS).                                                                                                                                                                                                                                            |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
| Remark for gold plated contacts:                                                                                      |                                                                                                                                                                                                                                                                                              |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
| In order to avoid brittle inter-metallic connections, gold plated terminals have to be tin-plated in the solder area. |                                                                                                                                                                                                                                                                                              |                              |                                                                                    |                       |                                                                                   |      |                               |        |       |      |      |                               |          |      |      |      |  |
| 8                                                                                                                     |                                                                                                                                                                                                                                                                                              | 7                            |                                                                                    | 6                     |                                                                                   | 5    |                               |        |       |      |      |                               |          |      |      |      |  |

|                                                                                       |  |                 |                 |                                            |                                               |
|---------------------------------------------------------------------------------------|--|-----------------|-----------------|--------------------------------------------|-----------------------------------------------|
|     |  | 19<br>(19-b)    | Ag              | C091 31D019 100 5 U                        | C091 31D019 102 5 U                           |
|    |  | 14<br>(14-b)    | Ag              | C091 31D114 100 5 U                        | C091 31D114 102 5 U                           |
|    |  | 14<br>(14-a)    | Ag              | C091 31D014 100 5 U                        | C091 31D014 102 5 U                           |
|    |  | 12<br>(12-a)    | Ag              | C091 31D012 100 5 U                        | C091 31D012 102 5 U                           |
|    |  | 8<br>(08-a)     | Ag              | C091 31D008 100 5 U                        | C091 31D008 102 5 U                           |
|    |  | 7<br>(07-b)     | Ag              | C091 31D107 100 5 U                        | C091 31D107 102 5 U                           |
|    |  | 7<br>(07-a)     | Ag              | C091 31D007 100 5 U                        | C091 31D007 102 5 U                           |
|   |  | 6<br>(06-a)     | Ag              | C091 31D006 100 5 U                        | C091 31D006 102 5 U                           |
|  |  | 5<br>(05-b)     | Ag              | C091 31D105 100 5 U                        | C091 31D105 102 5 U                           |
|  |  | 5<br>(05-a)     | Ag              | C091 31D005 100 5 U                        | C091 31D005 102 5 U                           |
|  |  | 4<br>(04-a)     | Ag              | C091 31D004 100 5 U                        | C091 31D004 102 5 U                           |
|  |  | 3<br>(03-a)     | Ag              | C091 31D003 100 5 U                        | C091 31D003 102 5 U                           |
| Contact arrangement<br>View on mating side                                            |  | IEC 61076-2-106 | contact plating | Part number<br>for cable diameters 4-8,5mm | Part number<br>for cable diameters 8,5-10,5mm |
| Calc. WT:                                                                             |  |                 |                 | Tolerances:                                |                                               |
| Testdimension                                                                         |  |                 |                 | ISO 2768-c                                 |                                               |
| Partindexnumber                                                                       |  |                 |                 | DIN/ISO 13715                              |                                               |
|                                                                                       |  |                 |                 | 24                                         | Datum/Date                                    |
|                                                                                       |  |                 |                 | Gez.                                       | Name                                          |
|                                                                                       |  |                 |                 | Drawn                                      | 29.01. Lee                                    |
|                                                                                       |  |                 |                 | Gepr.                                      |                                               |
|                                                                                       |  |                 |                 | Checked                                    |                                               |
|                                                                                       |  |                 |                 | Amphenol-Tuchel Industrial GmbH            |                                               |
|                                                                                       |  |                 |                 | M                                          | C091 31DXXX X0X 5 U                           |
|                                                                                       |  |                 |                 | Blatt/Sheet                                |                                               |
|                                                                                       |  |                 |                 | 1                                          |                                               |
|                                                                                       |  |                 |                 | 1 BL.                                      |                                               |
| 01                                                                                    |  |                 |                 | 202400055                                  | 29.01.24                                      |
| Index                                                                                 |  |                 |                 | Description                                | Date                                          |
|                                                                                       |  |                 |                 | LW                                         | Name                                          |
|                                                                                       |  |                 |                 | Replacement for: /                         |                                               |
| 8                                                                                     |  | 7               |                 | 6                                          |                                               |