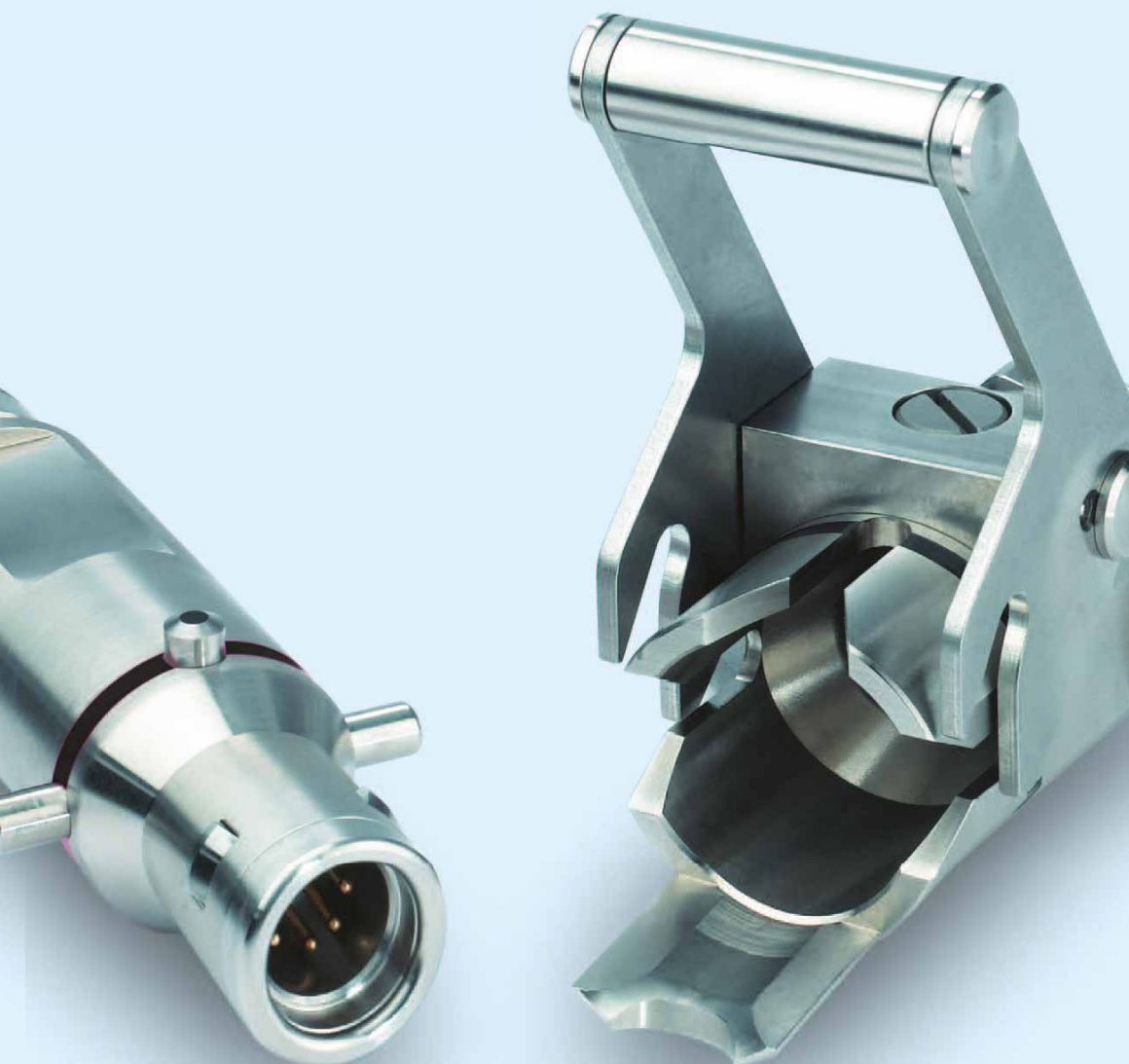


TELEMANIPULATOR CONNECTORS N SERIES



Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

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Киргизия +996(312)96-26-47

<https://lemon-rt.ru/> || ome@nt-rt.ru

Precision modular connectors to suit your application

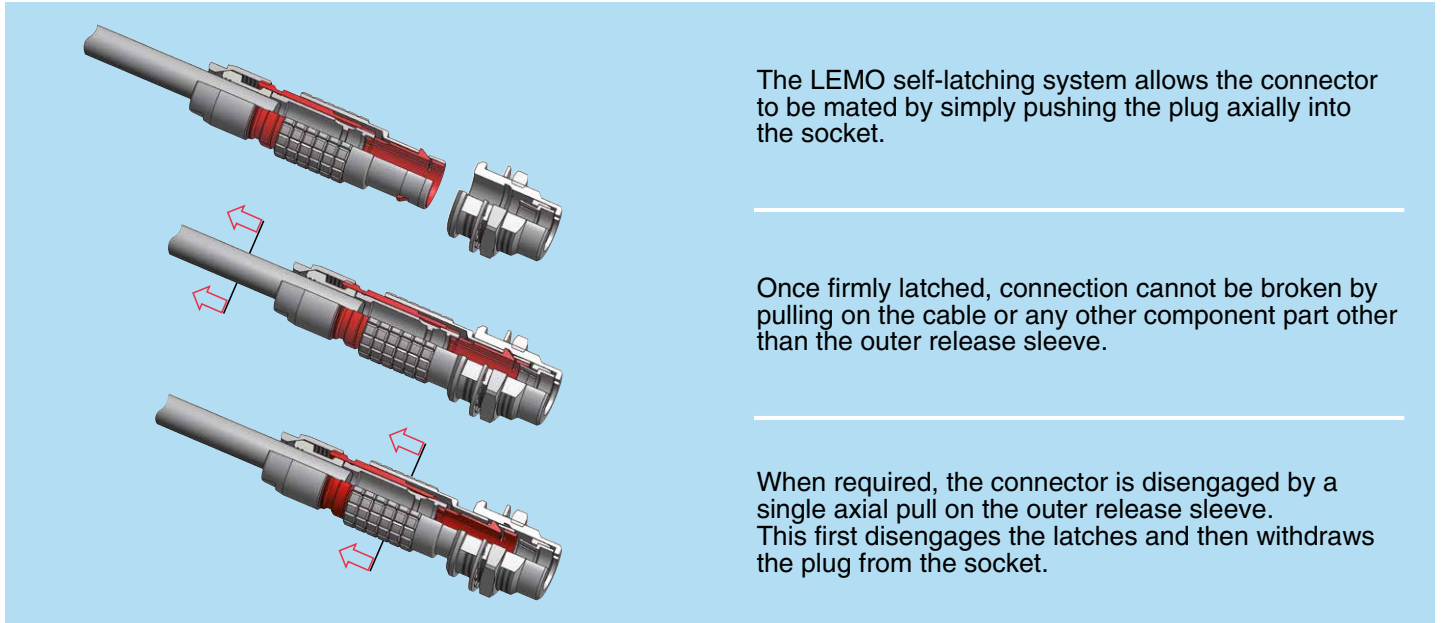
Since its creation in Switzerland in 1946 the LEMO Group has been recognized as a global leader of circular Push-Pull connectors and connector solutions. Today LEMO and its affiliated companies, REDEL and COELVER, are active in more than 80 countries with the help of over 40 subsidiaries and distributors.

Over 75000 connectors

The modular design of the LEMO range provides over 75000 connectors from miniature \varnothing 3 mm to \varnothing 50 mm, capable of handling cable diameters up to 30 mm and for up to 114 contacts. This vast portfolio enables you to select the ideal connector configuration to suit almost any specific requirement in most markets, including medical devices, test and measurement instruments, machinery, audio video broadcast, telecommunications and military.

LEMO's Push-Pull Self-Latching Connection System



This self-latching system is renowned worldwide for its easy and quick mating and unmating features. It provides absolute security against vibration, shock or pull on the cable, and facilitates operation in a very limited space.



UL Recognition

LEMO connectors are recognized by the Underwriters Laboratories (UL). The approval of the complete system (LEMO connector, cable and your equipment) will be easier because LEMO connectors are recognized.

CE marking

CE marking  means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives. CE marking  applies to complete products or equipment, **but not to electromechanical components, such as connectors.**

RoHS

LEMO connector specifications conform to the requirements of the RoHS directive (2011/65/EU) of the European Parliament and the latest amendments. This directive specifies the restrictions of the use of hazardous substances in electrical and electronic equipment marketed in Europe.

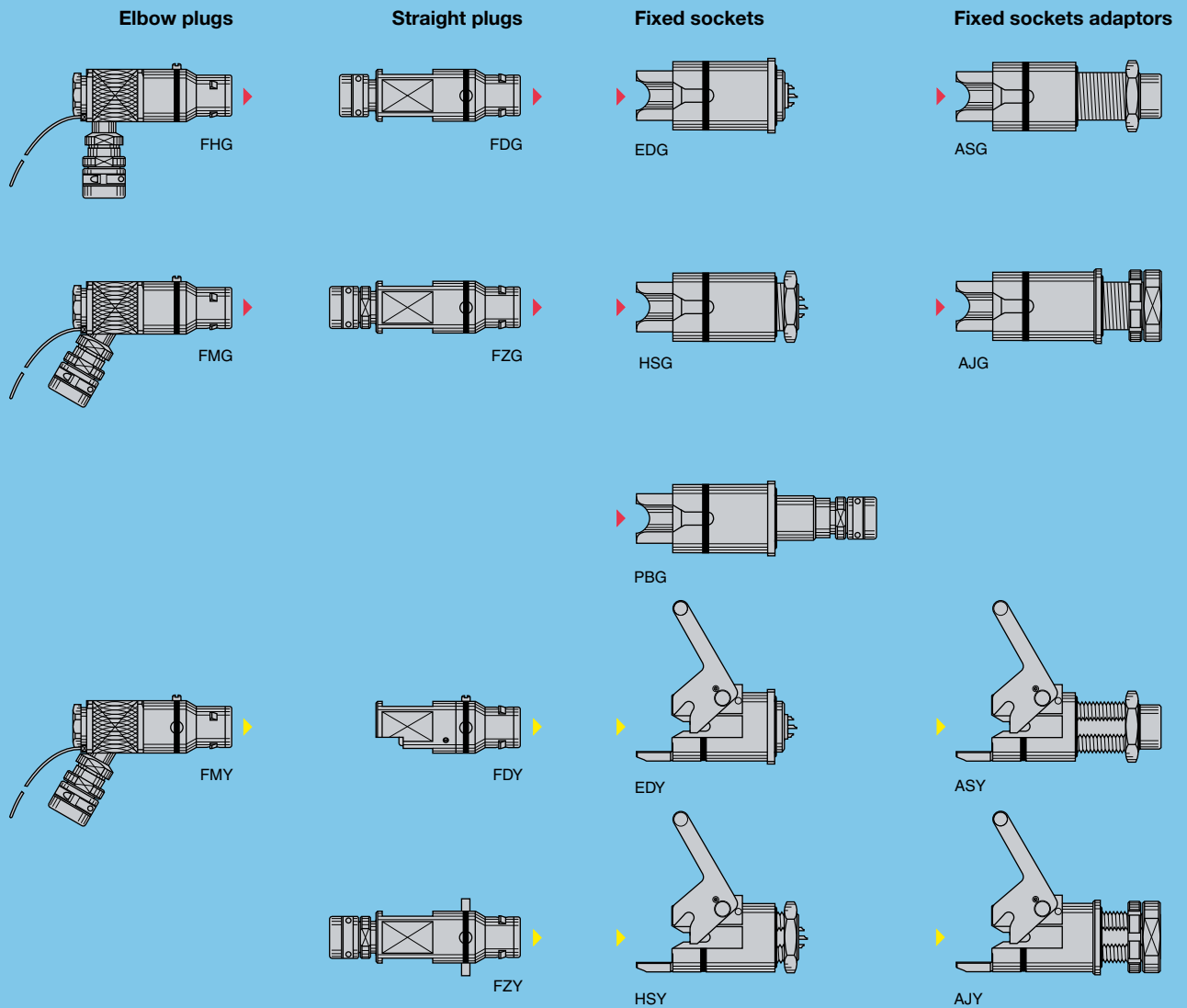
N Series

A range of remote handling stainless steel connectors suitable for operating in harsh environments such as nuclear reprocessing cells and the chemical industry. Features include alignment system and connection identification for ease of use. The N series are non-shielded connectors, one of the connector pin can be used as shield ground.

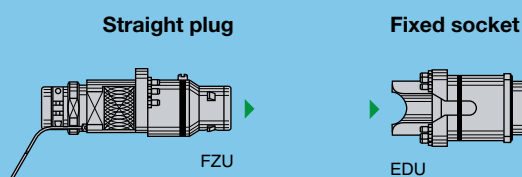
Feature / Benefits:

- Self-latching connection system based on K series
- Easy handling and gripping with highly efficient pre-positioning
- Reduced mating and unmating forces
- Black visual indicator on plug and socket shell
- Cable clamp on all plugs
- Non-shielded connection

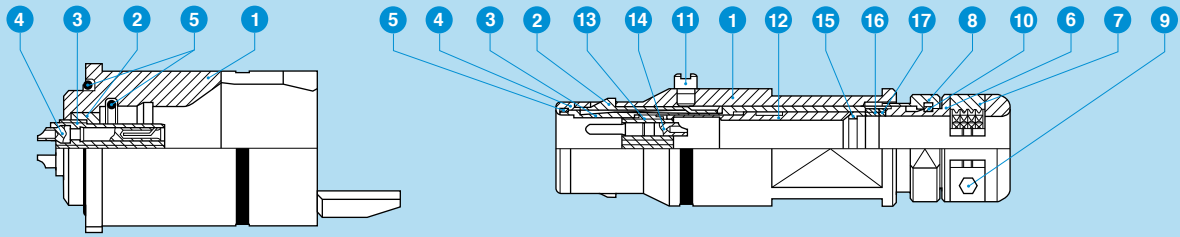
Models (page 6)



Keyed models (page 15)



Part Section Showing Internal Components



Fixed socket

- 1 shell
- 2 retaining ring
- 3 insulator
- 4 female contact
- 5 O-ring

Straight plug

- 1 shell
- 2 latch sleeve
- 3 inner shell
- 4 front retaining ring
- 5 O-ring
- 6 cable clamp body
- 7 clamp
- 8 clamp nut
- 9 hexagonal cap screw
- 10 clips
- 11 aligned pin
- 12 center piece
- 13 insulator
- 14 male contact
- 15 earthing cone
- 16 gasket
- 17 washer

Shell material and Treatment

| Components | Material (Standard) | Surface treatment (μm) | |
|---|-------------------------|-------------------------------------|----|
| | | Nickel-plated | |
| | | Cu | Ni |
| Outer shell, collet clamp, pre-positioning sleeve, washer | AISI 304L | without treatment | |
| Latch sleeve | Special stainless steel | without treatment | |
| Earthing crown | AISI 304L | without treatment | |
| Pin, screw | Stainless steel | without treatment | |
| Other metallic parts | Brass (UNS C 38500) | 0.5 | 3 |
| O-ring and gasket | EPDM | without treatment | |
| Insulator | PEEK | without treatment | |

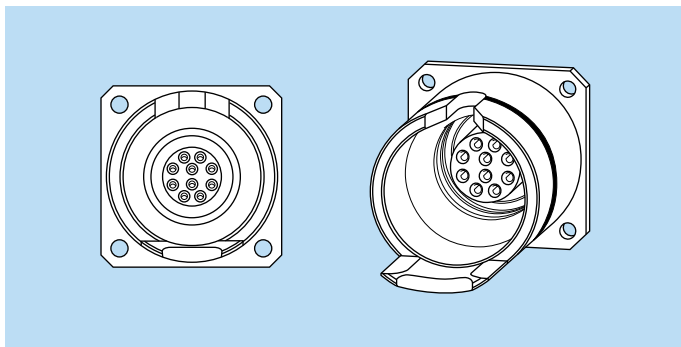
Note: the surface treatment standards are as follows: chrome FS-QQ-C-320B, nickel FS-QQ-N-290A.

Alignment Key

Standard positioning offers landing tray and notched entry for self-correcting alignment in robotic applications. Optional user configurable version provides further flexibility.

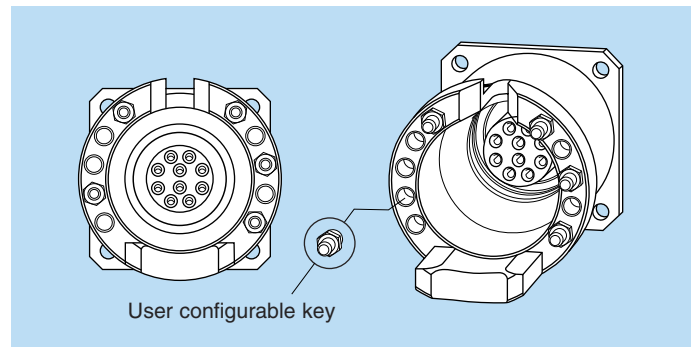
G-Positioning (Standard) - 2N-5N

- Standard alignment & positioning for 2N to 5N Series

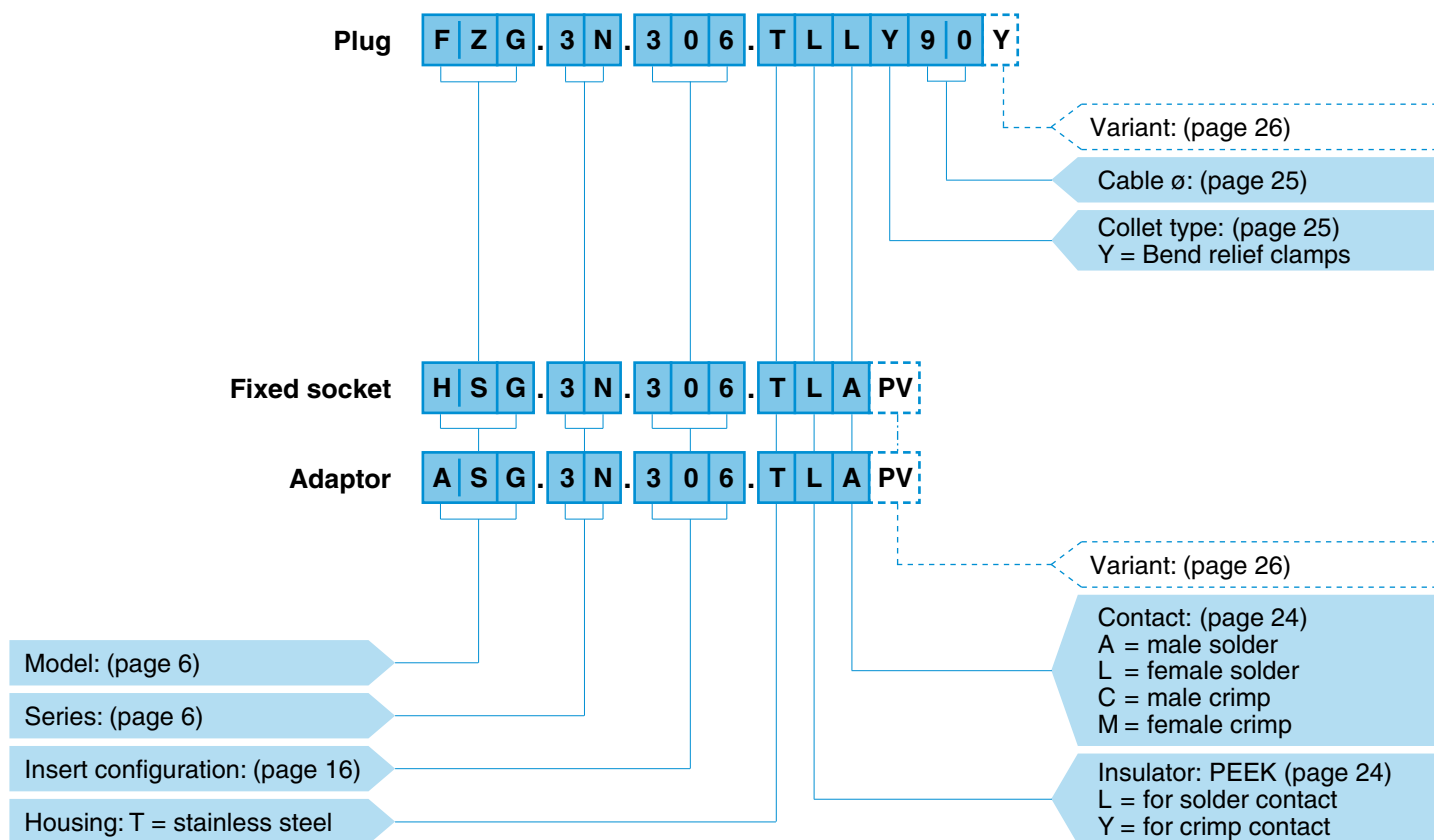


U-Keying (Robust) - 5N only

- Same features as the standard G-positioning, plus:
- 32 user configurable keying options



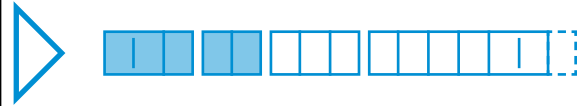
Part Numbering System



FZG.3N.306.TLLY90Y = straight plug, 3N series, multipole type with 6 contacts, outer shell in stainless steel, PEEK insulator, female solder contacts, Y type collet for 9.0 mm diameter cable.

HSG.3N.306.TLAPV = fixed socket, nut fixing, 3N series, multipole type with 6 contacts, outer shell in stainless steel, PEEK insulator, male solder contacts, vacuumtight.

ASG.3N.306.TLAPV = fixed adaptor, 3N series, multipole type with 6 contacts, outer shell in stainless steel, PEEK insulator, male solder contacts on the N series side and female solder contacts on the K series side, vacuumtight.



Metal housing models

Technical Characteristics

Mechanical and Climatical

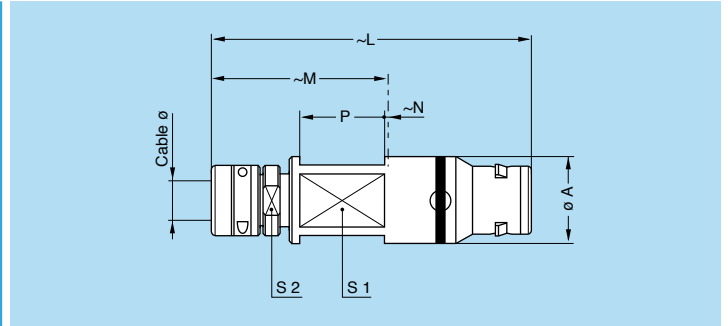
| Characteristics | Value | Standard |
|---------------------------------|--------------------|---------------------|
| Endurance ¹⁾ | > 5000 cycles | IEC 60512-5 test 9a |
| Humidity | up to 95% at 60° C | |
| Temperature range ²⁾ | -40° C, +160° C | |
| Resistance to vibrations | 10-2000 Hz, 15g | IEC 60512-4 test 6d |

| Characteristics | Value | Standard |
|---------------------------|-------------|----------------------|
| Shock resistance | 100 g, 6 ms | IEC 60512-4 test 6c |
| Salt spray corrosion test | > 1000h | IEC 60512-6 test 11f |
| Protection index (mated) | IP 66 | IEC 60529 |
| Climatical category | 20/80/21 | IEC 60068-1 |

Note: ¹⁾ in order to perform correctly and withstand the pressure, cable assembly shall be made according to instruction we recommend.

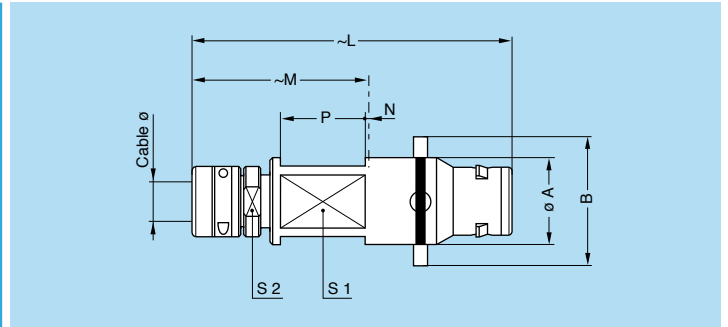
²⁾ vacuumtight version: -20°C, + 80°C.

FZG Straight plug with positioning pin, cable clamp and smooth handling surface



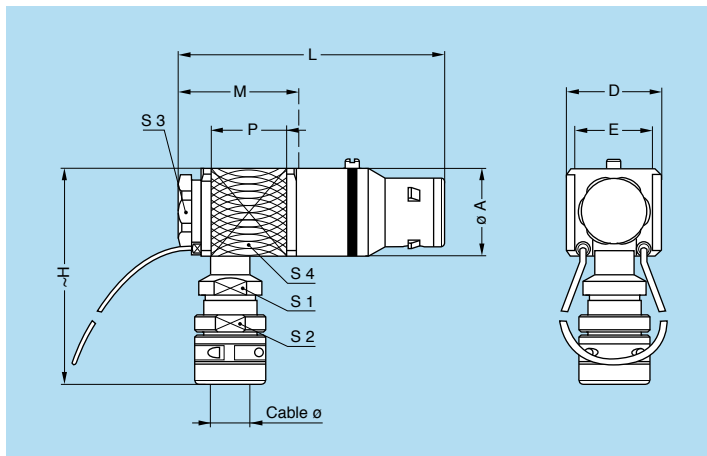
| Reference | | Dimensions (mm) | | | | | | | Cable ø | |
|-----------|--------|-----------------|-----|----|---|----|----|----|---------|------|
| Model | Series | A | L | M | N | P | S1 | S2 | mini | maxi |
| FZG | 3N | 25 | 103 | 55 | 1 | 25 | 21 | 20 | 6.1 | 12 |
| FZG | 4N | 31 | 113 | 62 | 1 | 30 | 26 | 25 | 6.1 | 17 |
| FZG | 5N | 45 | 155 | 90 | 1 | 50 | 39 | 40 | 9.1 | 30 |

FZY Straight plug with positioning pin, cable clamp and smooth handling surface



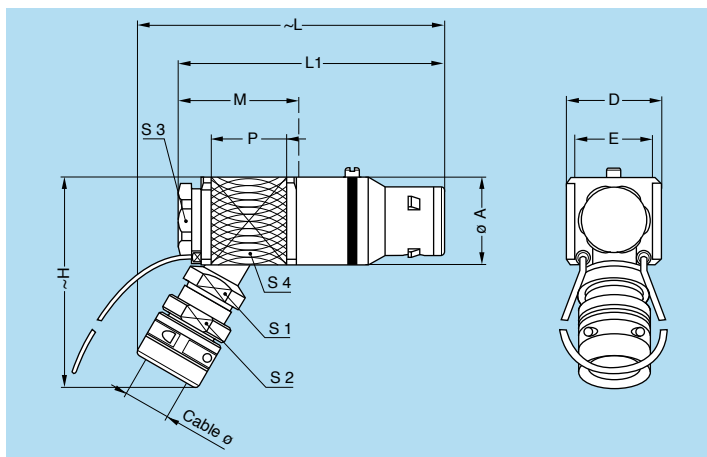
| Reference | | Dimensions (mm) | | | | | | | | Cable ø | |
|-----------|--------|-----------------|------|-----|----|---|----|----|----|---------|------|
| Model | Series | A | B | L | M | N | P | S1 | S2 | mini | maxi |
| FZY | 2N | 22 | 29.4 | 89 | 48 | 1 | 22 | 18 | 17 | 7.6 | 10 |
| FZY | 3N | 25 | 38.0 | 103 | 55 | 1 | 25 | 21 | 20 | 6.1 | 12 |
| FZY | 4N | 31 | 44.0 | 113 | 62 | 1 | 30 | 26 | 25 | 6.1 | 17 |
| FZY | 5N | 45 | 61.0 | 155 | 90 | 1 | 50 | 39 | 40 | 9.1 | 30 |

FHG Elbow plug (90°) with positioning pin, cable clamp and rough handling surface



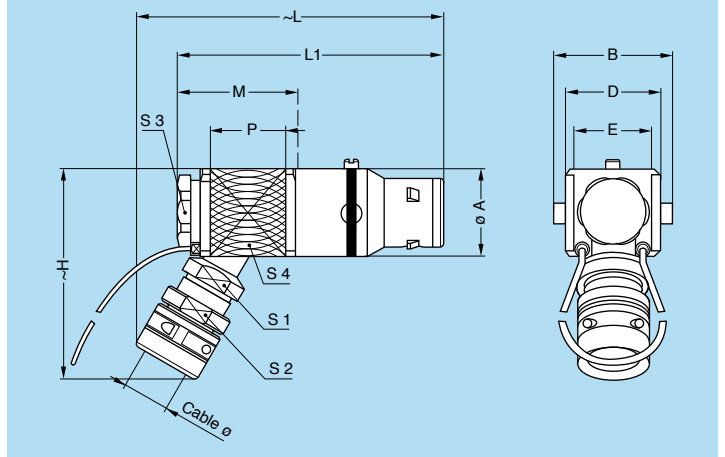
| Reference | | Dimensions (mm) | | | | | | | | | | | Cable ø | |
|------------|-----------|-----------------|----|----|------|------|------|----|----|----|----|----|---------|------|
| Model | Series | A | D | E | H | L | M | P | S1 | S2 | S3 | S4 | mini | maxi |
| FHG | 3N | 25 | 28 | 24 | 70.2 | 82.3 | 34.6 | 23 | 17 | 20 | 18 | 24 | 6.1 | 12 |

FMG Elbow plug (120°) with positioning pin, cable clamp and rough handling surface



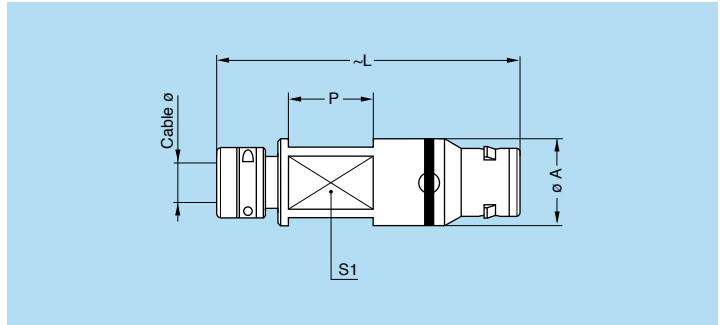
| Reference | | Dimensions (mm) | | | | | | | | | | | | Cable ø | |
|------------|-----------|-----------------|----|----|-------|-------|-------|------|----|----|----|----|----|---------|------|
| Model | Series | A | D | E | H | L | L1 | M | P | S1 | S2 | S3 | S4 | mini | maxi |
| FMG | 3N | 25 | 28 | 24 | 67.0 | 98.9 | 82.3 | 34.6 | 23 | 17 | 20 | 18 | 24 | 6.1 | 12 |
| FMG | 4N | 31 | 36 | 30 | 76.8 | 109.2 | 93.0 | 42.5 | 23 | 22 | 25 | 24 | 30 | 6.1 | 17 |
| FMG | 5N | 45 | 48 | 42 | 116.9 | 154.5 | 129.6 | 66.3 | 23 | 36 | 40 | 38 | 42 | 9.1 | 30 |

FMY Elbow plug (120°) with positioning pin, cable clamp and rough handling surface



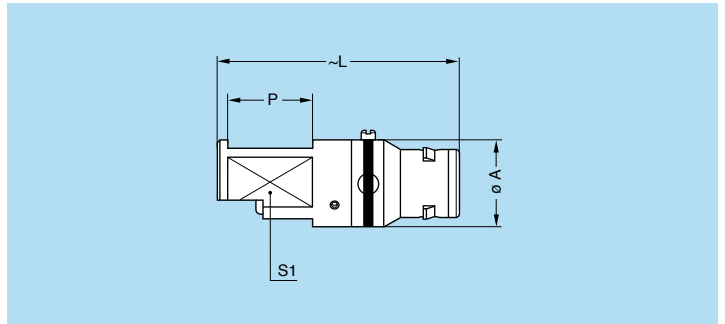
| Reference | | Dimensions (mm) | | | | | | | | | | | | Cable ø | | |
|------------|-----------|-----------------|----|----|----|-------|-------|-------|------|----|----|----|----|---------|------|------|
| Model | Series | A | B | D | E | H | L | L1 | M | P | S1 | S2 | S3 | S4 | mini | maxi |
| FMY | 4N | 31 | 44 | 36 | 30 | 76.8 | 109.2 | 93.0 | 42.5 | 23 | 22 | 25 | 24 | 30 | 6.1 | 17 |
| FMY | 5N | 45 | 61 | 48 | 42 | 116.9 | 154.5 | 129.6 | 66.3 | 23 | 36 | 40 | 38 | 42 | 9.1 | 30 |

FDG Straight plug with positioning pin, cable clamp and smooth handling surface



| Reference | | Dimensions (mm) | | | | Cable ø | |
|------------|-----------|-----------------|----|----|----|---------|------|
| Model | Series | A | L | P | S1 | mini | maxi |
| FDG | 3N | 25 | 91 | 23 | 21 | 6.1 | 12 |

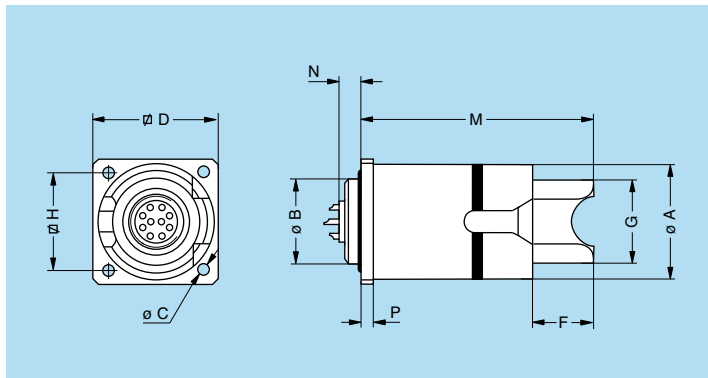
FDY Straight plug with positioning pin, cable clamp and smooth handling surface



| Reference | | Dimensions (mm) | | | |
|------------|-----------|-----------------|------|----|----|
| Model | Series | A | L | P | S1 |
| FDY | 4N | 31 | 85.6 | 30 | 26 |

Part number example: FDY.4N.3●.TL●C●●

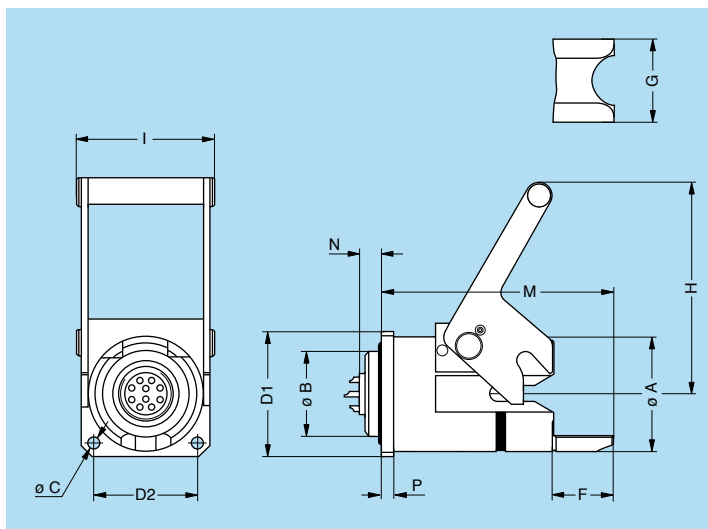
EDG Fixed socket with square flange, 4 screws fixing, with long pre-positioning sleeve. Without earthing crown



| Reference | | Dimensions (mm) | | | | | | | | | | |
|-----------|--------|-----------------|----|-----|----|------|----|----|------|------|---|--|
| Model | Series | A | B | C | D | F | G | H | M | N | P | |
| EDG | 3N | 32 | 24 | 3.2 | 34 | 18.5 | 19 | 27 | 68.5 | 8.7 | 3 | |
| EDG | 4N | 40 | 30 | 4.2 | 43 | 20.0 | 24 | 35 | 74.0 | 10.7 | 4 | |
| EDG | 5N | 55 | 45 | 5.2 | 58 | 28.0 | 35 | 46 | 94.0 | 13.2 | 5 | |

P3 Panel cut-out (page 27)

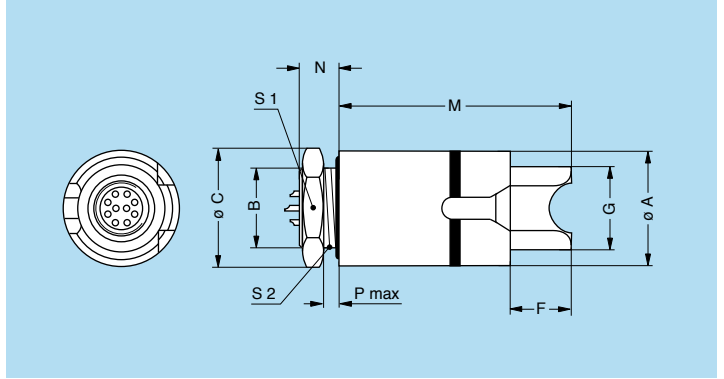
EDY Fixed socket for remote handling with square flange and lever



| Reference | | Dimensions (mm) | | | | | | | | | | | | |
|-----------|--------|-----------------|----|-----|----|----|------|----|------|------|------|------|---|--|
| Model | Series | A | B | C | D1 | D2 | F | G | H | I | M | N | P | |
| EDY | 3N | 32 | 24 | 3.2 | 34 | 27 | 18.5 | 19 | 68.4 | 36.6 | 68.5 | 8.7 | 3 | |
| EDY | 4N | 40 | 30 | 4.2 | 43 | 35 | 20.0 | 24 | 75.8 | 43.6 | 74.0 | 10.7 | 4 | |
| EDY | 5N | 55 | 45 | 5.2 | 58 | 46 | 28.0 | 35 | 96.4 | 60.6 | 94.0 | 13.2 | 5 | |

P3 Panel cut-out (page 27)

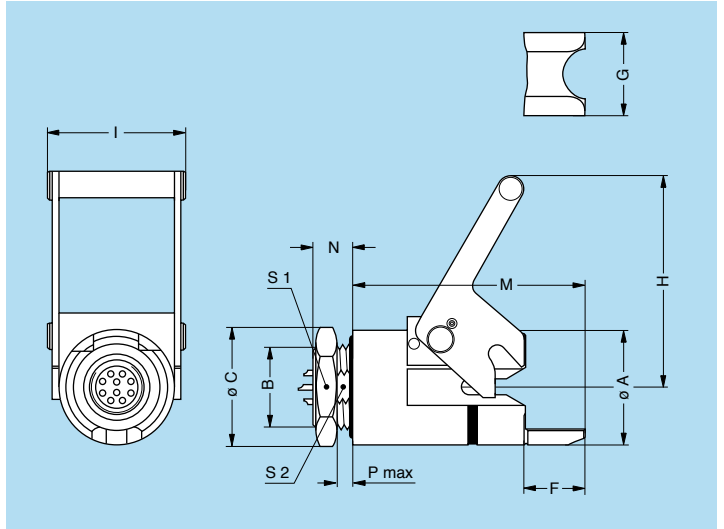
HSG Fixed socket, with long pre-positioning sleeve, without earthing crown, watertight or vacuumtight



| Reference | | Dimensions (mm) | | | | | | | | | |
|-----------|--------|-----------------|---------|------|------|----|------|------|------|----|------|
| Model | Series | A | B | C | F | G | M | N | P | S1 | S2 |
| HSG | 2N | 27 | M20x1.0 | 27.8 | 14.0 | 16 | 56.5 | 12.0 | 8.0 | 24 | 18.5 |
| HSG | 3N | 32 | M24x1.0 | 34.0 | 18.5 | 19 | 68.5 | 13.0 | 8.0 | 30 | 22.5 |
| HSG | 4N | 40 | M30x1.0 | 40.5 | 20.0 | 24 | 74.0 | 16.0 | 9.0 | 36 | 28.5 |
| HSG | 5N | 55 | M45x1.5 | 54.0 | 28.0 | 35 | 94.0 | 19.5 | 11.5 | - | 42.5 |

P1 Panel cut-out (page 27)

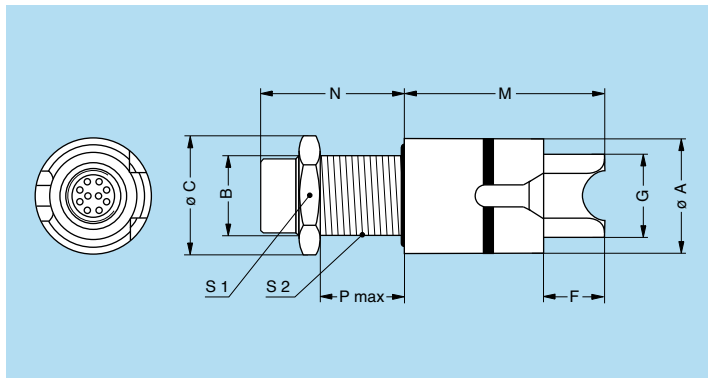
HSY Fixed socket for remote handling with lever, watertight or vacuumtight



| Reference | | Dimensions (mm) | | | | | | | | | | | |
|-----------|--------|-----------------|---------|------|------|----|------|------|------|------|------|----|------|
| Model | Series | A | B | C | F | G | H | I | M | N | P | S1 | S2 |
| HSY | 2N | 27 | M21x1.0 | 27.8 | 14.0 | 16 | 58.5 | 31.6 | 56.5 | 12.0 | 8.0 | 24 | 18.5 |
| HSY | 3N | 32 | M24x1.0 | 34.0 | 18.5 | 19 | 68.4 | 36.6 | 68.5 | 13.0 | 8.0 | 30 | 22.5 |
| HSY | 4N | 40 | M30x1.0 | 40.5 | 20.0 | 24 | 75.8 | 43.6 | 74.0 | 16.0 | 9.0 | 36 | 28.5 |
| HSY | 5N | 55 | M45x1.5 | 54.0 | 28.0 | 35 | 96.4 | 60.6 | 94.0 | 19.5 | 11.5 | - | 42.5 |

P1 Panel cut-out (page 27)

ASG Fixed adaptor to K series (the K side is equipped with female contacts, the N side with male ones)

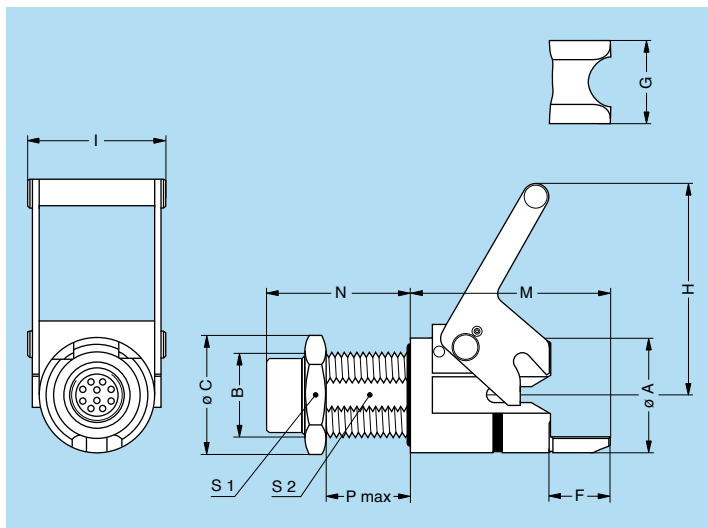


| Reference | | Dimensions (mm) | | | | | | | | | |
|-----------|--------|-----------------|---------|------|------|----|------|------|------|---------------|------|
| Model | Series | A | B | C | F | G | M | N | P | S1 | S2 |
| ASG | 3N | 32 | M24x1.0 | 34.0 | 18.5 | 19 | 56.5 | 54.0 | 37.0 | 30 | 22.5 |
| ASG | 4N | 40 | M30x1.0 | 40.5 | 20.0 | 24 | 74.0 | 50.2 | 31.2 | 36 | 28.5 |
| ASG | 5N | 55 | M45x1.5 | 54.0 | 28.0 | 35 | 94.0 | 60.5 | 37.5 | ¹⁾ | 42.5 |

P1 Panel cut-out (page 27)

Note: ¹⁾ delivered with a round nut (GEB.5E.240.AZ).

ASY Fixed adaptor to K series (the K side is equipped with female contacts, the N side with male ones)

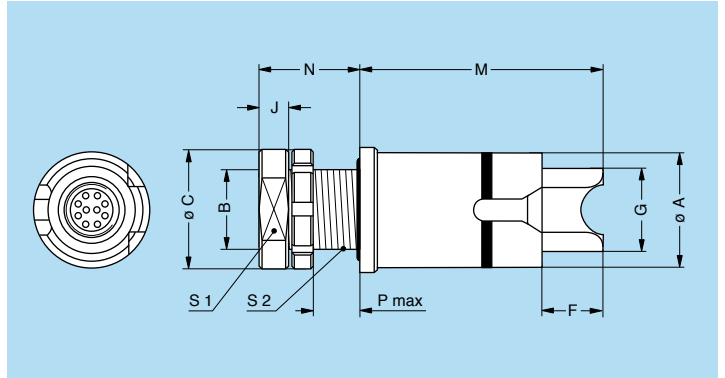


| Reference | | Dimensions (mm) | | | | | | | | | | | |
|-----------|--------|-----------------|---------|------|------|----|------|------|------|------|------|---------------|------|
| Model | Series | A | B | C | F | G | H | I | M | N | P | S1 | S2 |
| ASY | 3N | 32 | M24x1.0 | 34.0 | 18.5 | 19 | 68.4 | 36.6 | 68.5 | 42.0 | 24.0 | 30 | 22.5 |
| ASY | 4N | 40 | M30x1.0 | 40.5 | 20.0 | 24 | 75.8 | 43.6 | 81.7 | 42.5 | 23.5 | 36 | 28.5 |
| ASY | 5N | 55 | M45x1.5 | 54.0 | 28.0 | 35 | 96.4 | 60.6 | 94.0 | 60.5 | 37.5 | ¹⁾ | 42.5 |

P1 Panel cut-out (page 27)

Note: ¹⁾ delivered with a round nut (GEB.5E.240.AZ).

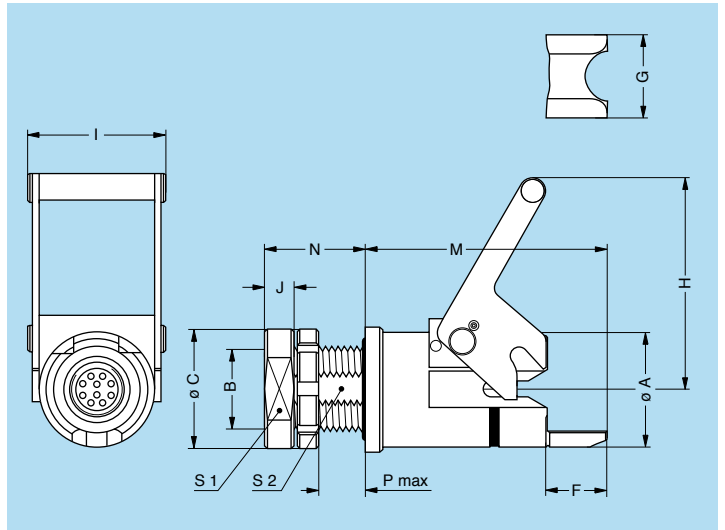
AJG Fixed adaptor to K series, vacuumtight (interchangeable insulator)
 (the K side is equipped with female contacts, the N side with male ones)



| Reference | | Dimensions (mm) | | | | | | | | | | |
|------------|-----------|-----------------|-------|----|------|----|----|------|----|---|----|------|
| Model | Series | A | B | C | F | G | J | M | N | P | S1 | S2 |
| AJG | 3N | 32 | M30x1 | 40 | 18.5 | 19 | 13 | 80.6 | 30 | 7 | 36 | 28.5 |

P2 Panel cut-out (page 27)

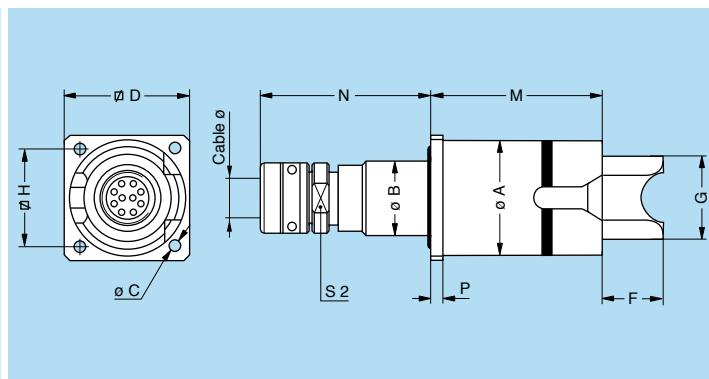
AJY Fixed adaptor to K series, vacuumtight with lever (interchangeable insulator)
 (the K side is equipped with female contacts, the N side with male ones)



| Reference | | Dimensions (mm) | | | | | | | | | | | | |
|------------|-----------|-----------------|---------|----|------|----|------|------|----|-------|------|----|----|------|
| Model | Series | A | B | C | F | G | H | I | J | M | N | P | S1 | S2 |
| AJY | 3N | 32 | M30x1.0 | 40 | 18.5 | 19 | 68.4 | 36.6 | 13 | 80.6 | 30.0 | 7 | 36 | 28.5 |
| AJY | 4N | 40 | M40x1.5 | 50 | 20.0 | 24 | 75.8 | 43.6 | 13 | 89.5 | 34.9 | 12 | 46 | 38.0 |
| AJY | 5N | 55 | M55x2.0 | 65 | 28.0 | 35 | 96.4 | 60.6 | 13 | 120.5 | 34.0 | 11 | 60 | 52.0 |

P2 Panel cut-out (page 27)

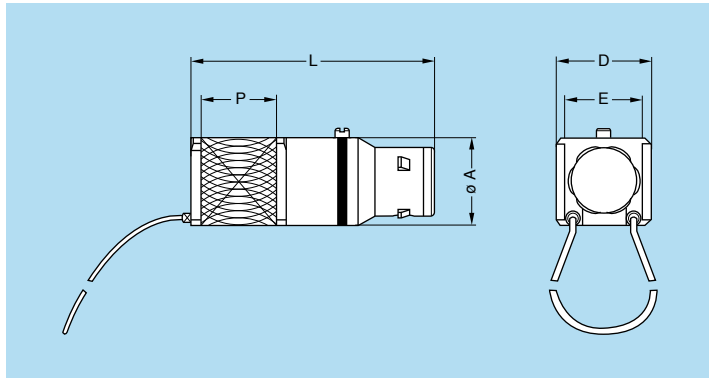
PBG Fixed socket with square flange, 4 screws fixing, with long pre-positioning sleeve and cable clamp. Without earthing crown



| Reference | | Dimensions (mm) | | | | | | | | | | | Cable ø | |
|------------|-----------|-----------------|----|-----|----|------|----|----|----|------|---|----|---------|------|
| Model | Series | A | B | C | D | F | G | H | M | N | P | S2 | mini | maxi |
| PBG | 3N | 32 | 24 | 3.2 | 34 | 18.5 | 19 | 27 | 50 | 58.5 | 3 | 20 | 6.1 | 12 |
| PBG | 4N | 40 | 30 | 4.2 | 43 | 20.0 | 24 | 35 | 54 | 66.0 | 4 | 25 | 6.1 | 17 |
| PBG | 5N | 55 | 45 | 5.2 | 58 | 28.0 | 35 | 46 | 66 | 91.0 | 5 | 40 | 9.1 | 30 |

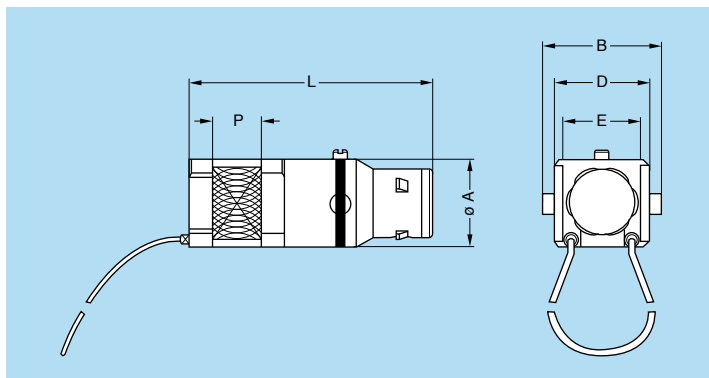
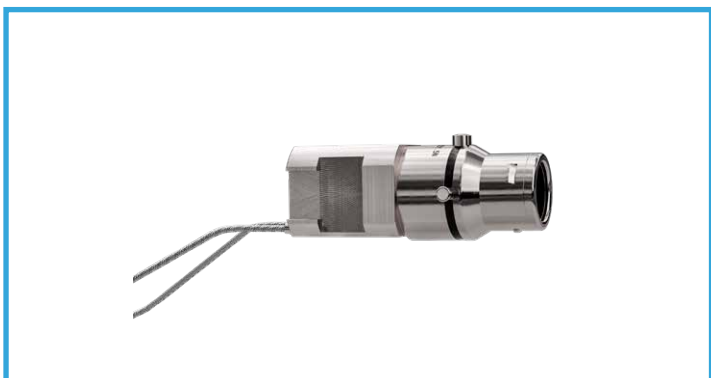
P3 Panel cut-out (page 27)

BZG Cap for socket (model ●●G)



| Part number | Dimensions (mm) | | | | |
|-----------------------|-----------------|----|----|------|----|
| | A | D | E | L | P |
| BZG.3N.200.TAV | 25 | 28 | 24 | 76.8 | 23 |
| BZG.4N.200.TAV | 31 | 36 | 30 | 86 | 23 |
| BZG.5N.200.TAV | 45 | 48 | 42 | 120 | 23 |

BZY Cap for socket (model ●●Y)

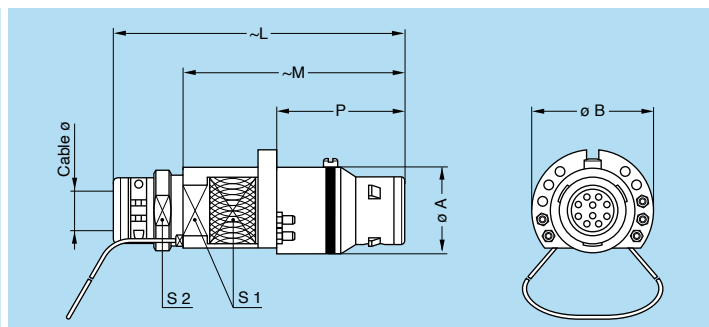
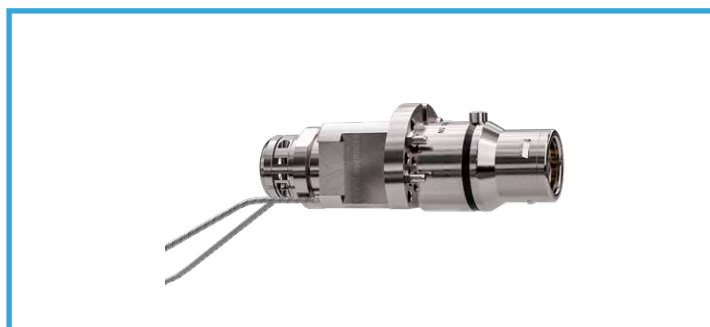


| Part number | Dimensions (mm) | | | | | |
|-----------------------|-----------------|----|----|----|-----|----|
| | A | B | D | E | L | P |
| BZY.4N.200.TAV | 31 | 44 | 36 | 30 | 86 | 23 |
| BZY.5N.200.TAV | 45 | 61 | 48 | 42 | 120 | 23 |

▶

Keyed models

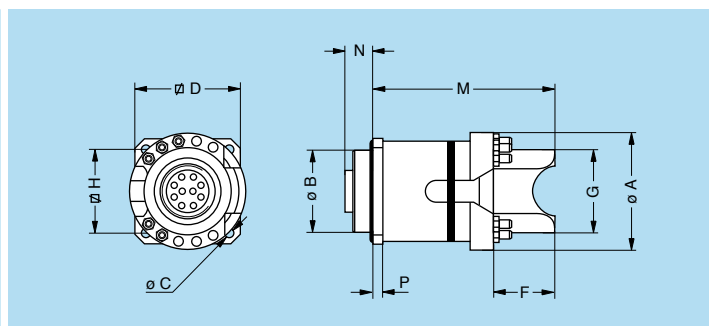
FZU Straight plug with positioning pin and coding pins, cable clamp and rough handling surface, with lanyard release



| Reference | | Dimensions (mm) | | | | | | | Cable ø | |
|------------|-----------|-----------------|----|-------|-------|------|----|----|---------|------|
| Model | Series | A | B | L | M | P | S1 | S2 | mini | maxi |
| FZU | 5N | 45 | 65 | 155.3 | 118.1 | 68.1 | 42 | 40 | 16.6 | 17.5 |

Note: Please contact the factory for other cable clamps.

EDU Fixed socket with square flange with coding pins, 4 screws fixing



| Reference | | Dimensions (mm) | | | | | | | | | |
|------------|-----------|-----------------|----|-----|----|----|----|----|----|----|---|
| Model | Series | A | B | C | D | F | G | H | M | N | P |
| EDU | 5N | 65 | 45 | 5.2 | 58 | 28 | 35 | 46 | 94 | 16 | 5 |

P4 Panel cut-out (page 27)

Insert configuration

Multipole

| | Solder contacts | | Reference | Series | Contact ø (mm) | Contact type | | | | AWG | | | Solder contact | | Crimp contact | | Rated current (A) ¹⁾ |
|---|-----------------|--|-----------|--------|----------------|--------------|-------|------------------|---------------|---------------|-------|------|--|--|--|--|---------------------------------|
| | Crimp contacts | | | | | Solder | Crimp | Print (straight) | Print (elbow) | Solder (max.) | Crimp | | Test voltage (kV rms) ¹⁾ Contact-contact | Test voltage (kV rms) ²⁾ Contact-shell | Test voltage (kV rms) ¹⁾ Contact-contact | Test voltage (kV rms) ²⁾ Contact-shell | |
| | | | | | | | | | | | min. | max. | | | | | |
| 2 | | | 302 | 2N | 2.0 | ● | ● | - | - | 16 | 18 | 12 | 2.10 | 1.75 | 2.85 | 2.70 | 25.0 |
| | | | | 3N | 3.0 | ● | ● | - | - | 12 | 14 | 10 | 2.10 | 1.55 | 2.30 | 1.80 | 35.0 |
| | | | | 5N | 6.0 | ● | - | - | - | 8 | - | - | 3.60 | 2.95 | - | - | 50.0 |
| 3 | | | 303 | 2N | 1.6 | ● | ● | - | - | 18 | 22 | 14 | 2.40 | 1.85 | 1.90 | 1.90 | 17.0 |
| | | | | 3N | 2.0 | ● | ● | - | - | 16 | 18 | 12 | 1.90 | 1.50 | 3.20 | 2.65 | 25.0 |
| 4 | | | 304 | 2N | 1.3 | ● | ● | - | - | 20 | 26 | 18 | 1.85 | 1.85 | 2.20 | 2.20 | 15.0 |
| | | | | 3N | 2.0 | ● | ● | - | - | 16 | 18 | 12 | 1.45 | 1.25 | 2.50 | 2.20 | 19.0 |
| | | | | 4N | 3.0 | ● | ● | - | - | 12 | 14 | 10 | 2.10 | 1.50 | 1.80 | 1.20 | 30.0 |
| | | | | 5N | 4.0 | ● | ● | - | - | 10 | 12 | 10 | 2.95 | 2.65 | 3.20 | 2.40 | 35.0 |
| 5 | | | 305 | 2N | 1.3 | ● | ● | - | - | 20 | 26 | 18 | 1.75 | 1.60 | 2.15 | 2.15 | 14.0 |
| | | | | 3N | 1.6 | ● | ● | - | - | 18 | 22 | 14 | 1.90 | 1.25 | 2.40 | 1.75 | 19.0 |
| 6 | | | 306 | 2N | 1.3 | ● | ● | - | - | 20 | 26 | 18 | 1.35 | 1.45 | 2.00 | 2.35 | 12.0 |
| | | | | 3N | 1.6 | ● | ● | - | - | 18 | 22 | 14 | 1.60 | 1.15 | 1.90 | 1.80 | 17.0 |
| | | | | 4N | 2.0 | ● | ● | - | - | 16 | 18 | 12 | 2.00 | 1.75 | 2.75 | 2.40 | 24.0 |
| 7 | | | 307 | 2N | 1.3 | ● | ● | - | - | 20 | 26 | 18 | 1.75 | 1.60 | 1.95 | 2.15 | 11.0 |
| | | | | 3N | 1.6 | ● | ● | - | - | 18 | 22 | 14 | 1.70 | 1.25 | 2.00 | 2.05 | 15.0 |
| | | | | 4N | 2.0 | ● | ● | - | - | 16 | 18 | 12 | 2.00 | 1.80 | 1.50 | 1.35 | 20.0 |

Note: 1) see calculation method, caution and suggested standard.
 2) test voltage (kV) contact-shell (values here are for B series).

● First choice alternative
 ○ Special order alternative



Multipole

| | Solder contacts | | Reference | Series | Contact ø (mm) | Contact type | | | | AWG | | | Solder contact | | Crimp contact | | Rated current (A) ¹⁾ |
|----|-----------------|--|-----------|--------|----------------|--------------|-------|------------------|---------------|---------------|----------|----------|--|--|--|--|---------------------------------|
| | Crimp contacts | | | | | Solder | Crimp | Print (straight) | Print (elbow) | Solder (max.) | Crimp | | Test voltage (kV rms) ¹⁾ Contact-contact | Test voltage (kV rms) ²⁾ Contact-shell | Test voltage (kV rms) ¹⁾ Contact-contact | Test voltage (kV rms) ²⁾ Contact-shell | |
| | | | | | | | | | | | min. | max. | | | | | |
| 8 | | | 308 | 2N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.50 | 1.25 | 1.95 | 1.95 | 10.0 |
| | | | | 3N | 1.3 | ● | ● | - | - | 20 | 26 | 18 | 1.65 | 1.15 | 1.85 | 1.75 | 13.0 |
| 9 | | | 309 | 3N | 8x1.3 1x2.0 | ● | ● | - | - | 20 16 | 26 18 | 18 12 | 1.35 | 1.05 | 1.10 | 1.05 | 6.0 15.0 |
| | | | | | | | | | | | | | | | | | |
| 10 | | | 310 | 2N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.45 | 1.30 | 1.80 | 2.10 | 8.0 |
| | | | | 3N | 1.3 | ● | ● | - | - | 20 | 26 | 18 | 1.25 | 0.90 | 1.50 | 1.80 | 12.0 |
| | | | | 4N | 1.6 | ● | ● | - | - | 18 | 22 | 14 | 1.85 | 1.30 | 1.90 | 1.95 | 17.0 |
| | | | | 5N | 3.0 | ● | ● | - | - | 12 | 14 | 10 | 2.35 | 2.30 | 2.65 | 3.20 | 20.0 |
| 12 | | | 312 | 2N | 0.7 | ● | ● | - | - | 22 | 32 | 22 | 1.25 | 1.35 | 1.65 | 2.00 | 7.0 |
| | | | | 3N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.45 | 1.00 | 1.65 | 1.85 | 9.0 |
| | | | | 4N | 1.3 | ● | ● | - | - | 20 | 26 | 18 | 1.45 | 1.60 | 1.90 | 1.85 | 12.0 |
| 14 | | | 314 | 2N | 0.7 | ● | ● | - | - | 22 | 32 | 22 | 1.15 | 1.35 | 1.55 | 1.55 | 6.5 |
| | | | | 3N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.20 | 1.20 | 1.80 | 1.65 | 9.0 |
| | | | | 5N | 2.0 | ● | ● | - | - | 16 | 18 | 12 | 2.10 | 2.00 | 2.85 | 2.95 | 18.0 |
| 16 | | | 316 | 2N | 0.7 | ● | ● | - | - | 22 | 32 | 22 | 0.95 | 1.25 | 1.55 | 1.75 | 6.0 |
| | | | | 3N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.20 | 0.85 | 1.80 | 1.50 | 8.0 |
| | | | | 4N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.35 | 1.50 | 2.30 | 2.10 | 10.0 |
| | | | | 5N | 2.0 | ● | ● | - | - | 16 | 18 | 12 | 1.85 | 1.95 | 2.45 | 3.05 | 12.0 |
| 18 | | | 318 | 2N | 0.7 | ● | ● | - | - | 22 | 32 | 22 | 0.85 | 1.20 | 1.45 | 2.10 | 5.5 |
| | | | | 3N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.20 | 1.05 | 1.85 | 1.60 | 7.0 |

Note: 1) see calculation method, caution and suggested standard.
2) test voltage (kV) contact-shell (values here are for B series).

● First choice alternative
○ Special order alternative

Multipole

| | Solder contacts | | Crimp contacts | | Reference | Series | Contact ø (mm) | Contact type | | | | AWG | | Solder contact | | Crimp contact | | Rated current (A) ¹⁾ | |
|----|-----------------|--|----------------|--|-----------|--------|----------------|--------------|-------|------------------|---------------|---------------|-------|----------------|--|--|--|---------------------------------|--|
| | | | | | | | | Solder | Crimp | Print (straight) | Print (elbow) | Solder (max.) | Crimp | | Test voltage (kV rms) ¹⁾ Contact-contact | Test voltage (kV rms) ²⁾ Contact-shell | Test voltage (kV rms) ¹⁾ Contact-contact | | Test voltage (kV rms) ²⁾ Contact-shell |
| | | | | | | | | | | | | | min. | max. | | | | | |
| 19 | | | | | 319 | 2N | 0.7 | ● | ● | - | - | 22 | 32 | 22 | 0.95 | 1.25 | 1.55 | 1.65 | 5.0 |
| | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | 320 | 3N | 0.7 | ● | ● | - | - | 22 | 32 | 22 | 1.00 | 0.90 | 1.35 | 1.55 | 6.0 |
| | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | 320 | 4N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.35 | 1.00 | 1.05 | 0.95 | 8.0 |
| | | | | | | 5N | 1.6 | ● | ● | - | - | 18 | 22 | 14 | 1.90 | 1.70 | 2.20 | 2.40 | 10.0 |
| 22 | | | | | 322 | 3N | 0.7 | ● | ● | - | - | 22 | 32 | 22 | 1.00 | 0.90 | 1.70 | 1.45 | 5.5 |
| | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | 324 | 3N | 0.7 | ● | ● | - | - | 22 | 32 | 22 | 0.95 | 0.80 | 1.35 | 1.35 | 4.0 |
| | | | | | | 4N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.20 | 1.45 | 1.80 | 2.05 | 7.0 |
| 26 | | | | | 326 | 2N | 0.5 | ● | - | - | - | 28 | - | - | 0.95 | 1.30 | - | - | 2.0 |
| | | | | | | 3N | 0.7 | ● | ● | - | - | 22 | 32 | 22 | 0.95 | 0.70 | 1.50 | 1.30 | 4.0 |
| 30 | | | | | 330 | 3N | 0.7 | ● | ● | - | - | 22 | 32 | 22 | 0.80 | 0.70 | 1.35 | 1.20 | 3.5 |
| | | | | | | 4N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 0.95 | 0.85 | 1.75 | 1.45 | 5.0 |
| | | | | | | 5N | 1.3 | ● | ● | - | - | 20 | 26 | 18 | 1.45 | 1.60 | 2.05 | 2.45 | 8.0 |

Note: 1) see calculation method, caution and suggested standard.
 2) test voltage (kV) contact-shell (values here are for B series).

● First choice alternative
 ○ Special order alternative



Multipole

| | Solder contacts | | Reference | Series | Contact ø (mm) | Contact type | | | | AWG | | | Solder contact | | Crimp contact | | Rated current (A) ¹⁾ |
|----|-----------------|--|-----------|--------|----------------|--------------|-------|------------------|---------------|---------------|-------|------|--|--|--|--|---------------------------------|
| | | | | | | Solder | Crimp | Print (straight) | Print (elbow) | Solder (max.) | Crimp | | Test voltage (kV rms) ¹⁾ Contact-contact | Test voltage (kV rms) ²⁾ Contact-shell | Test voltage (kV rms) ¹⁾ Contact-contact | Test voltage (kV rms) ²⁾ Contact-shell | |
| | | | | | | | | | | | min. | max. | | | | | |
| 32 | | | 332 | 2N | 0.5 | ● | – | – | – | 28 | – | – | 0.80 | 1.20 | – | – | 1.5 |
| | | | | | | | | | | | | | | | | | |
| 32 | | | 332 | 3N | 0.7 | ● | ○ | – | – | 22 | 32 | 22 | 0.75 | 0.70 | – | – | 3.0 |
| | | | | | | | | | | | | | | | | | |
| 40 | | | 340 | 4N | 0.7 | ● | ● | – | – | 22 | 32 | 22 | 0.90 | 0.90 | 1.30 | 1.30 | 2.0 |
| | | | | | | | | | | | | | | | | | |
| 48 | | | 348 | 4N | 0.7 | ● | ● | – | – | 22 | 32 | 22 | 0.70 | 0.70 | 1.00 | 1.00 | 1.5 |
| | | | | | | | | | | | | | | | | | |
| 48 | | | 348 | 5N | 1.3 | ● | ● | – | – | 20 | 26 | 18 | 1.20 | 1.10 | 2.00 | 1.55 | 6.0 |
| | | | | | | | | | | | | | | | | | |
| 50 | | | 350 | 5N | 0.9 | ● | ● | – | – | 22 | 32 | 20 | 1.30 | 1.60 | 1.20 | 1.45 | 6.0 |
| | | | | | | | | | | | | | | | | | |

Note: ¹⁾ see calculation method, caution and suggested standard.
²⁾ test voltage (kV) contact-shell (values here are for B series).

● First choice alternative
○ Special order alternative

Multipole

| | Solder contacts | | Crimp contacts | | Reference | Series | Contact \varnothing (mm) | Contact type | | | | AWG | | Solder contact | | Crimp contact | | Rated current (A) ¹⁾ | |
|----|-----------------|--|----------------|----|-----------|--------|----------------------------|--------------|-------|------------------|---------------|---------------|-------|----------------|--|--|--|---------------------------------|--|
| | | | | | | | | Solder | Crimp | Print (straight) | Print (elbow) | Solder (max.) | Crimp | | Test voltage (kV rms) ¹⁾ Contact-contact | Test voltage (kV rms) ²⁾ Contact-shell | Test voltage (kV rms) ¹⁾ Contact-contact | | Test voltage (kV rms) ²⁾ Contact-shell |
| | | | | | | | | | | | | | min. | max. | | | | | |
| 54 | | | 354 | 5N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.15 | 1.55 | 2.00 | 2.10 | 5.0 | | |
| | | | | | | | | | | | | | | | | | | | |
| 64 | | | 364 | 5N | 0.9 | ● | ● | - | - | 22 | 32 | 20 | 1.30 | 1.55 | 1.35 | 1.85 | 3.0 | | |
| | | | | | | | | | | | | | | | | | | | |

Note: ¹⁾ see calculation method, caution and suggested standard.
²⁾ test voltage (kV) contact-shell (values here are for B series).

● First choice alternative
○ Special order alternative

Note:
More contact configurations are available, please consult our coax-triax-hybrid catalogue.
Thermocouple contacts are also available, please contact your local sales subsidiary for more information.



Multi coax, hybrid coax + LV

| | | Reference | Coax | | | | Low voltage (LV) | | | | | | |
|-----------|--|------------|--------------------|------------------------|--------------------|---------------------------|--------------------|---------------|---------------|-------|-----------------------|----------------------|-------------------|
| | | | Number of contacts | Impedance (Ω) | Type ¹⁾ | Cable group ¹⁾ | Number of contacts | ϕ A (mm) | Contacts type | | Test voltage (kV rms) | Test voltage (kV dc) | Rated current (A) |
| | | | | | | | | | Solder | Crimp | | | |
| 2N | | 802 | 1 | 50 | A1 | 1-2-3 | 2 | 0.9 | ● | ● | 0.85 | 1.20 | 10 |
| | | 804 | 1 | 50 | A1 | 1-2-3 | 4 | 0.7 | ● | ● | 0.75 | 1.05 | 7 |
| | | 806 | 1 | 50 | A1 | 1-2-3 | 6 | 0.7 | ● | ● | 0.75 | 1.05 | 7 |
| | | 810 | 1 | 50 | C | 1-2-3 | 10 | 0.7 | ● | ● | 0.95 | 1.35 | 7 |
| | | 841 | 2 | 50 | E | 2 | 1 | 1.6 | ● | ● | 1.90 | 2.70 | 17 |
| | | 232 | 2 | 50 | G | - | - | - | - | - | - | - | - |
| | | 243 | 3 | 50 | E | 2 | - | - | - | - | - | - | - |
| 3N | | 803 | 1 | 50 | A0 | 6 | 3 | 0.9 | ● | - | 1.10 | 1.55 | 8 |
| | | 806 | 1 | 50 | A1 | 1-2-3 | 6 | 0.7 | ● | ● | 1.00 | 1.50 | 7 |
| | | 809 | 1 | 50 | A1 | 1-2-3 | 9 | 0.7 | ● | ● | 1.00 | 1.50 | 7 |
| | | 812 | 1 | 50 | A1 | 1-2-3 | 12 | 0.9 | ● | ● | 0.80 | 1.10 | 5 |
| | | 813 | 1 | 50 | A1 | 1-2-3 | 13 | 0.7 | ● | ● | 0.90 | 1.30 | 7 |
| | | 822 | 1 | 50 | C | 1-2-3 | 22 | 0.7 | ● | ● | 0.70 | 1.00 | 5 |
| | | 844 | 2 | 50 | C | 1-2-3 | 4 | 0.9 | ● | ● | 0.90 | 1.30 | 10 |
| | | 846 | 2 | 50 | C | 1-2-3 | 6 | 0.9 | ● | ● | 0.90 | 1.30 | 10 |
| | | 850 | 2 | 50 | C | 1-2-3 | 10 | 0.7 | ● | ● | 0.75 | 1.05 | 8 |
| | | 856 | 2 | 50 | C | 1-2-3 | 16 | 0.7 | ● | ● | 0.70 | 1.00 | 7 |
| | | 242 | 2 | 50 | C | 1-2-3 | - | - | - | - | - | - | - |
| | | 243 | 3 | 50 | C | 1-2-3 | - | - | - | - | - | - | - |
| | | 862 | 3 | 50 | C | 1-2-3 | 2 | 0.9 | ● | ● | 1.10 | 1.60 | 9 |

Note: ¹⁾ see coax, triax and hybrid catalogue.

● First choice alternative ○ Special order alternative

Multi coax, hybrid coax + LV

| | Reference | Coax | | | | Low voltage (LV) | | | | | | |
|------------|--------------------------|-------------------------|------------------------|--------------------|---------------------------|--------------------|----------------------|---------------|-------|-----------------------|----------------------|-------------------|
| | | Number of contacts | Impedance (Ω) | Type ¹⁾ | Cable group ¹⁾ | Number of contacts | \varnothing A (mm) | Contacts type | | Test voltage (kV rms) | Test voltage (kV dc) | Rated current (A) |
| | | | | | | | | Solder | Crimp | | | |
| | 802 822 | 1 | 50 75 | A A | 5-6 4 to 6 | 2 | 0.9 | ● | ● | 1.00 | 1.40 | 12 |
| | 804 824 | 1 | 50 75 | A A | 5-6 4 to 6 | 4 | 0.9 | ● | ● | 1.00 | 1.40 | 10 |
| | 806 826 | 1 | 50 75 | A A | 5-6 4 to 6 | 6 | 0.9 | ● | ● | 1.00 | 1.40 | 10 |
| | 842 | 2 | 50 | A1 | 1-2-3 | 2 | 0.9 | ● | ● | 1.70 | 2.40 | 12 |
| | 844 | 2 | 50 | A1 | 1-2-3 | 4 | 0.9 | ● | ● | 1.70 | 2.40 | 10 |
| | 852 | 2 | 50 | C | 1-2-3 | 12 | 0.9 | ● | ● | 0.90 | 1.30 | 8 |
| | 856 | 2 | 50 | C | 1-2-3 | 16 | 0.9 | ● | ● | 0.90 | 1.30 | 8 |
| | 858 | 2 | 50 | C | 1-2-3 | 18 | 0.7 | ● | ● | 0.80 | 1.10 | 7 |
| | 866 | 3 | 50 | C | 1-2-3 | 6 | 0.7 | ● | ● | 0.80 | 1.10 | 7 |
| | 885 | 3 | 50 | C | 1-2-3 | 12 | 0.7 | ● | ● | 0.80 | 1.10 | 8 |
| | 244 | 4 | 50 | C | 1-2-3 | - | - | - | - | - | - | - |
| | 879 | 4 | 50 | C | 1-2-3 | 9 | 0.7 | ● | ● | 0.90 | 1.30 | 8 |
| | 890 | 6 | 50 | E | 2 | 18 | 0.7 | ● | ○ | 0.90 | 1.30 | 5 |
| | 894 | 6 | 50 | E | 2 | 22 | 0.7 | ● | ○ | 0.90 | 1.30 | 4 |
| | | 997²⁾ | 1 | 75 | A4 | N/A | 32 | 1.3 | ● | ○ | 1.20 | 1.70 |
| 840 | | 1 | 50 | A | 5-6 | 40 | 0.9 | ● | ● | 1.30 | 1.80 | 7 |

Note: 1) see coax, triax and hybrid catalogue.
2) only available in 5B series. Solution for triaxial cable fixing.

● First choice alternative
○ Special order alternative



Multi coax, hybrid coax + LV

| Reference | Coax | | | | Low voltage (LV) | | | | | | | |
|-----------|--------------------|------------------------|--------------------|---------------------------|--------------------|---------------|---------------|--------|-----------------------|----------------------|-------------------|---------|
| | Number of contacts | Impedance (Ω) | Type ¹⁾ | Cable group ¹⁾ | Number of contacts | ϕ A (mm) | Contacts type | | Test voltage (kV rms) | Test voltage (kV dc) | Rated current (A) | |
| | | | | | | | Solder | Crimp | | | | |
| | 868 878 | 1 | 50 75 | B B | 6 3-5 | 4 44 | 3.0 0.9 | ● | ○ | 0.80 | 1.15 | 35 6 |
| | 850 870 | 2 | 50 75 | B B | 6 3-5 | 10 | 0.9 | ○ | ● | 1.40 | 2.00 | 8 |
| | 856 876 | 2 | 50 75 | B B | 6 3-5 | 16 | 0.9 | ○ | ● | 1.40 | 2.00 | 7 |
| | 857 877 | 2 | 50 75 | B B | 6 3-5 | 2 15 | 2.0 0.9 | ○ ○ | ● ● | 1.40 1.40 | 2.00 2.00 | 30 7 |
| | 864 | 2 | 75 | B0 | 1-6 | 24 | 1.3 | ● | ○ | 0.90 | 1.30 | 8 |
| | 273 | 3 | 75 | B1 | 5 | - | - | - | - | - | - | - |
| | 274 | 4 | 75 | B1 | 5 | - | - | - | - | - | - | - |
| | 892 | 6 | 75 | D | 5-8-9 | 10 | 0.9 | ● | ○ | 0.70 | 1.00 | 7 |
| | 260 | 7 | 75 | D | 5-8-9 | - | - | - | - | - | - | - |
| | 240 | 10 | 50 | C | 1-2-3 | - | - | - | - | - | - | - |

Note: ¹⁾ see coax, triax and hybrid catalogue.

● First choice alternative ○ Special order alternative

Insulators

| Ref. | Material | Contact type | Remarks |
|------|----------|-----------------|---|
| Y | PEEK | Crimp | extended design, with contacts that recess into insulator |
| L | PEEK | Solder or print | |

Note: detailed characteristics of these materials are presented in the Unipole/Multipole catalogue.

Contacts

Contacts reference for plugs, free or fixed sockets

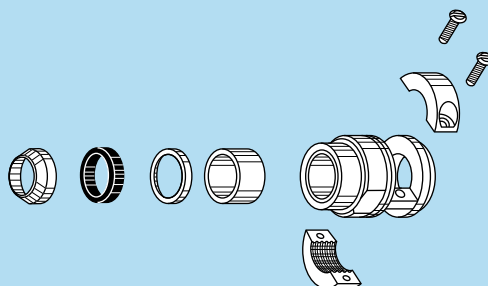
| Contact type | Reference | | Contact | | | Conductor | | | | | | F _r ¹⁾ (N) | Notes | |
|---|-----------|----------|-------------|-------------|------------------|-------------|---------------------------------------|----------|------------------|----------------------------|------|-------------------------------------|-------|---|
| | Male | Female | ø A (mm) | ø C (mm) | Form per fig. | Solid | | Stranded | | | | | | |
| | | | | | | AWG max. | Section max. (mm ²) | AWG | | Section (mm ²) | | | | |
| | | | | | | | | min. | max. | min. | max. | | | |
| Solder | A | L | 0.5 | 0.45 | – | 28 | 0.09 | – | 28 | – | 0.09 | – | – | ● |
| | | | 0.7 | 0.80 | – | 22 | 0.34 | – | 22 ²⁾ | – | 0.34 | – | – | |
| | | | 0.9 | 0.80 | – | 22 | 0.34 | – | 22 ²⁾ | – | 0.34 | – | – | |
| | | | 1.3 | 1.00 | – | 20 | 0.50 | – | 20 ²⁾ | – | 0.50 | – | – | |
| | | | 1.6 | 1.40 | – | 16 | 1.00 | – | 18 | – | 1.00 | – | – | |
| | | | 2.0 | 1.80 | – | 14 | 1.50 | – | 16 | – | 1.50 | – | – | |
| | | | 3.0 | 2.70 | – | 10 | 4.00 | – | 12 | – | 4.00 | – | – | |
| | | | 4.0 | 3.70 | – | 10 | 6.00 | – | 10 | – | 6.00 | – | – | |
| Crimp fig. 1 fig. 2 | C | M | 0.7 | 0.80 | 1 | – | – | 26 | 22 ²⁾ | 0.140 | 0.34 | 22 | ● | |
| | B | P | 0.7 | 0.45 | 2 | – | – | 32 | 28 | 0.035 | 0.09 | 22 | ○ | |
| | C | M | 0.9 | 1.10 | 1 | – | – | 24 | 20 | 0.250 | 0.50 | 30 | ● | |
| | B | P | 0.9 | 0.80 | 2 | – | – | 26 | 22 ²⁾ | 0.140 | 0.34 | 30 | ○ | |
| | G | U | 0.9 | 0.45 | 2 | – | – | 32 | 28 | 0.035 | 0.09 | 30 | ○ | |
| | C | M | 1.3 | 1.40 | 1 | – | – | 20 | 18 | 0.500 | 1.00 | 40 | ● | |
| | B | P | 1.3 | 1.10 | 2 | – | – | 24 | 20 | 0.250 | 0.50 | 40 | ○ | |
| | G | U | 1.3 | 0.80 | 2 | – | – | 26 | 22 ²⁾ | 0.140 | 0.34 | 40 | ○ | |
| | C | M | 1.6 | 1.90 | 1 | – | – | 18 | 14 ²⁾ | 1.000 | 1.50 | 50 | ● | |
| | B | P | 1.6 | 1.40 | 2 | – | – | 22 | 18 | 0.340 | 1.00 | 50 | ○ | |
| | C | M | 2.0 | 2.40 | 1 | – | – | 16 | 12 ²⁾ | 1.500 | 2.50 | 65 | ● | |
| | B | P | 2.0 | 1.90 | 2 | – | – | 18 | 14 | 1.000 | 1.50 | 65 | ○ | |
| | C | M | 3.0 | 3.20 | 1 | – | – | 14 | 10 ²⁾ | 2.500 | 4.00 | 75 | ● | |
| | C | M | 4.0 | 4.00 | 1 | – | – | 12 | 10 | 4.000 | 6.00 | 90 | ● | |

Note:
¹⁾ contact retention force in the insulator (according to IEC 60512-8 test 15 a).
²⁾ for a given AWG, the diameter of some stranded conductor designs is larger than the solder cup diameter. Make sure that the maximum conductor diameter is smaller than ø C.

● First choice alternative ○ Special order alternative



Collets



| 2N | Type | Cable \varnothing (mm) | |
|----|------------|--------------------------|------|
| | | min. | max. |
| | Y80 | 7.6 | 8.0 |
| | Y85 | 8.1 | 8.5 |
| | Y90 | 8.6 | 9.0 |
| | Y95 | 9.1 | 9.5 |
| | Y10 | 9.6 | 10.5 |

| 3N | Type | Cable \varnothing (mm) | |
|----|------------|--------------------------|------|
| | | min. | max. |
| | Y65 | 6.1 | 6.5 |
| | Y70 | 6.6 | 7.0 |
| | Y75 | 7.1 | 7.5 |
| | Y80 | 7.6 | 8.0 |
| | Y85 | 8.1 | 8.5 |
| | Y90 | 8.6 | 9.0 |
| | Y95 | 9.1 | 9.5 |
| | Y10 | 9.6 | 10.5 |
| | Y11 | 10.6 | 11.5 |
| | Y12 | 11.6 | 12.5 |

| 4N | Type | Cable \varnothing (mm) | |
|----|------------|--------------------------|------|
| | | min. | max. |
| | Y65 | 6.1 | 6.5 |
| | Y70 | 6.6 | 7.0 |
| | Y75 | 7.1 | 7.5 |
| | Y80 | 7.6 | 8.0 |
| | Y85 | 8.1 | 8.5 |
| | Y90 | 8.6 | 9.0 |
| | Y95 | 9.1 | 9.5 |
| | Y10 | 9.6 | 10.5 |
| | Y11 | 10.6 | 11.5 |
| | Y12 | 11.6 | 12.5 |
| | Y13 | 12.6 | 13.5 |
| | Y14 | 13.6 | 14.5 |
| | Y15 | 14.6 | 15.5 |
| | Y16 | 15.6 | 16.5 |
| | Y17 | 16.6 | 17.5 |

| 5N | Type | Cable \varnothing (mm) | |
|----|------------|--------------------------|------|
| | | min. | max. |
| | Y95 | 9.1 | 9.5 |
| | Y10 | 9.6 | 10.5 |
| | Y11 | 10.6 | 11.5 |
| | Y12 | 11.6 | 12.5 |
| | Y13 | 12.6 | 13.5 |
| | Y14 | 13.6 | 14.5 |
| | Y15 | 14.6 | 15.5 |
| | Y16 | 15.6 | 16.5 |
| | Y17 | 16.6 | 17.5 |
| | Y18 | 17.6 | 18.5 |
| | Y19 | 18.6 | 19.5 |
| | Y20 | 19.6 | 20.5 |
| | Y21 | 20.6 | 21.5 |
| | Y22 | 21.6 | 22.5 |
| | Y23 | 22.6 | 23.5 |
| | Y24 | 23.6 | 24.5 |
| | Y25 | 24.6 | 25.5 |
| | Y26 | 25.6 | 26.5 |
| | Y27 | 26.6 | 27.5 |
| | Y28 | 27.6 | 28.5 |
| | Y30 | 28.6 | 30.0 |



Variant

Heatshrink boot

| Ref. | Supplier part number | LEMO Part number | ∅ as delivered (mm) | Length (mm) | Cable ∅ (mm) |
|----------|---------------------------------|------------------|---------------------|-------------|--------------|
| Y | Raychem® – WCSF-115-9/3-350/N | GMA.90.028.SN | 9 | 28 | 2.9 to 7.3 |
| | Raychem® – WCSF-300-28/8-350/N | GMA.91.028.SN | 28 | 28 | 7.9 to 19 |
| | Raychem® – WCSF-500-38/13-350/N | GMA.92.028.SN | 38 | 28 | 14 to 32 |

Watertight and vacuumtight socket

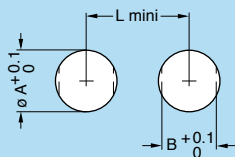
| Ref. | Materials |
|-----------|---|
| PV | O-ring is in EPDM, potting is done with our standard solution and uses two compound Araldite. Other potting solutions available on request & based on your application (i.g rad-hard) |

Tooling

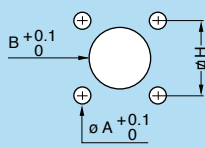
The tools for the crimp contacts are given in the Unipole/Multipole connectors catalogue.

Panel cut-outs

P1-P2



P3-P4



| Series | P1 | | | P2 | | | P3 | | | P4 | | |
|-----------|-----------------|------|----|-----------------|------|----|-----------------|----|----|-----------------|----|----|
| | $\varnothing A$ | B | L | $\varnothing A$ | B | L | $\varnothing A$ | B | H | $\varnothing A$ | B | H |
| 2N | 21.1 | 18.5 | 32 | - | - | - | - | - | - | - | - | - |
| 3N | 24.2 | 22.5 | 37 | 30.2 | 28.6 | 45 | 3.3 | 24 | 27 | - | - | - |
| 4N | 30.2 | 28.5 | 45 | 40.2 | 38.1 | 54 | 4.3 | 30 | 35 | - | - | - |
| 5N | 45.2 | 42.5 | 58 | 55.2 | 52.1 | 69 | 5.3 | 45 | 46 | 5.3 | 45 | 46 |

| Model | Type | Model | Type | Model | Type |
|-------|------|-------|------|-------|------|
| AJG | P2 | EDG | P3 | HSY | P1 |
| AJY | P2 | EDU | P4 | PBG | P3 |
| ASG | P1 | EDY | P3 | | |
| ASY | P1 | HSG | P1 | | |

Technical characteristics of plastic materials

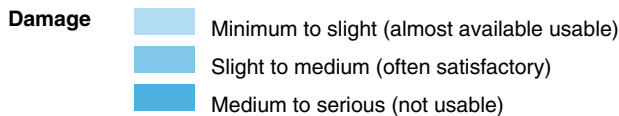
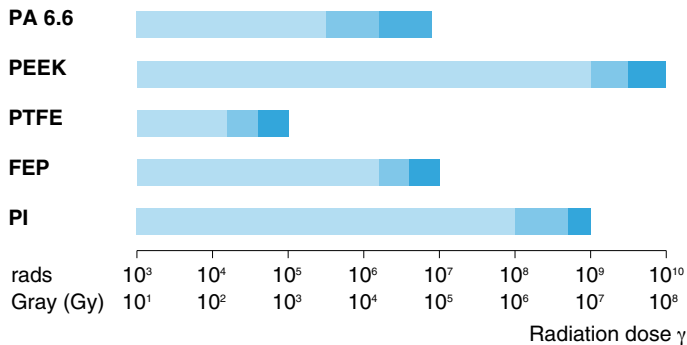
| Type | Standard | Units | PEEK | EPDM | Epoxy |
|--------------------------------------|----------------------|-------------------|------------------|-------------------|-------------------|
| Density | ASTM D 792 | g/cm ³ | 1.3-1.4 | ~1.13 | 1.58 |
| Tensile strength (at 23°C) | ASTM D 638/ ISO R527 | MPa | 92-142 | 12-15 | 16 |
| Flexural strength (at 23°C) | ASTM D 790/ ISO R178 | MPa | 170 | – | 24 |
| Dielectric strength | ASTM D 149/IEC 60243 | kV/mm | 19-25 | – | 15 |
| Volume resis. at 50% HR and 23°C | ASTM D 257/IEC 60093 | Ω • cm | 10 ¹⁶ | 10 ¹⁶ | 10 ¹⁴ |
| Surface resistivity | ASTM D 257 | Ω | 10 ¹⁵ | – | – |
| Thermal conductivity | ASTM C 177 | W/K • m | 0.25 | 0.15-0.26 | 0.8 |
| Comparative tracking index | IEC 60112 | V | CTI 150 | – | CTI>600 |
| Maxi. continuous service temperature | UL 746 | °C | 250 | 160 | 80 |
| Min. continuous service temperature | UL 746 | °C | -55 | -40 | -20 |
| Max. short-time service temperature | – | °C | 300 | 180 | 120 |
| Water absorption in 24h at 23°C | ASTM D 570/ISO R62A | % | 0.12 | – | 0.25 |
| Radiation resistance | – | Gy ¹⁾ | 10 ⁷ | 8x10 ⁷ | 2x10 ⁶ |
| Flammability rating | ASTM D 635/UL 94 | – | V-0/1.5 | – | V-0/4 |
| Resistance to steam sterilization | – | – | excel. | excel. | bad |

Notes: 1) 1 Gy (Gray) = 100 rad.

ASTM = American Society for Testing Material
ISO = International Standards Organisation

UL = Underwriters Laboratories
IEC = International Electrotechnical Commission

Radiation resistance



Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
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