

Series SMA

Coaxial Connectors

Edition 2011



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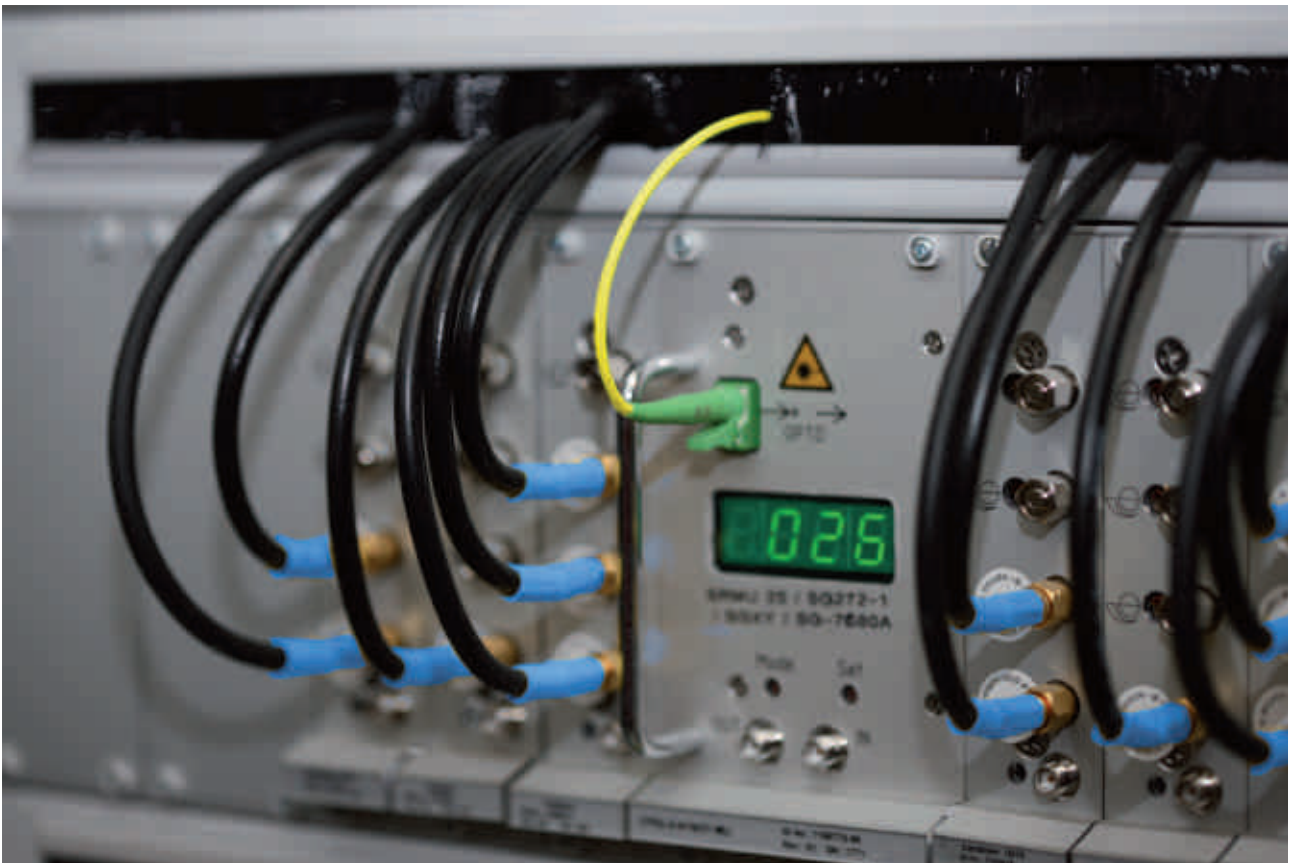
Series SMA, Subminiature Connectors

HUBER+SUHNER SMA connectors are precision connectors for microwave applications up to 18 GHz. The extended frequency version operates with excellent return loss performances up to 26.5 GHz. There is a huge variety of applications for HUBER+SUHNER SMA connectors, as in telecom, test+measurement, instruments, avionics, etc.

The HUBER+SUHNER series SMA is classified into two categories:

- HUBER+SUHNER Standard SMA connectors for high end applications or applications subject to rough conditions.
- HUBER+SUHNER® ECO SMA connectors for high volume applications. Besides the economic aspect, HUBER+SUHNER® ECO SMA connectors offer a compact design with a low ecological impact.

The two connector categories have different technical data and material involved and are in this way tailored to the different applications.



Features

- Frequency range up to 18 GHz, extended frequency version up to 26.5 GHz
- Excellent return loss
- Intermateable with PC3.5 and SK
- The SMA (Subminiature A) interface dimensions conform to the following standards:
 - International: **IEC 60169-15**
 - Europe: **CECC 22110**
 - USA: **MIL-C-39012 SMA**
Interface MIL-STD-348a/310

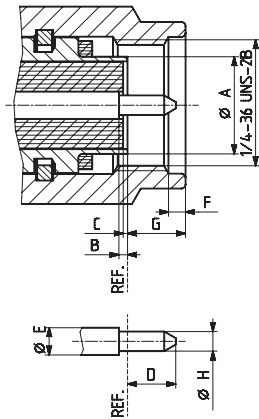
Benefits

- High mechanical strength
- Broadband RL performance
- Availability of hermetically sealed connectors and reverse types

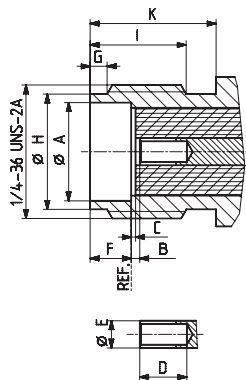
Technical Data

Interface dimensions

Plug (male)



Jack (female)



Interface dimensions (mm / inches)

| | Plug | | Jack | |
|---|-----------|-----------|-----------|-----------|
| | min. | max. | min. | max. |
| A | - | 4.59/1.81 | 4.59/.181 | - |
| B | 0.00/000 | 0.25/.010 | 0.00/000 | 0.25/.010 |
| C | 0.00/000 | 0.25/.010 | 0.00/000 | 0.25/.010 |
| C | - | 2.54/.100 | 2.67/.105 | - |
| E | 1.24/.049 | 1.29/.051 | 1.24/.049 | 1.29/.051 |
| F | 0.38/.015 | 1.14/.045 | 1.88/.074 | 1.98/.078 |
| G | - | 3.43/.135 | 0.38/.015 | 1.14/.045 |
| H | 0.90/.036 | 0.94/.037 | 5.28/.208 | 5.49/.216 |
| I | - | - | 4.32/.170 | - |
| K | - | - | 5.54/.218 | - |

IP 68 for interface in mated condition.

For IP rating of cable entry please contact our technical support.

Technical Data

| Electrical data | MIL-C-39012 | | | | |
|--|-------------|---|-------|----------|-------|
| Impedance | | 50 Ω | | | |
| Frequency range for interface | | DC ... 18 GHz (extended range DC ... 26.5 GHz) | | | |
| RL (typical value) | | for cable connectors refer to table below | | | |
| Cable type | | semi-rigid | | flexible | |
| Cable dielectric diameter (mm/in.) | | 1.5/066 | 3/117 | 1.5/066 | 3/117 |
| RF-leakage measured at 3 GHz | 3.26 | ≥ 100 dB-f (GHz) | | ≥ 60 dB | |
| Dielectric withstanding voltage (at sea level, in V rms, 50 Hz) | 3.17 | 1000 | 1500 | 750 | 1000 |
| Working voltage (at sea level, in V rms, 50 Hz) | | 335 | 500 | 250 | 335 |
| Corona extinction voltage (at 21 000 m/70 000 ft., in V rms, 50 Hz) | 3.22 | 250 | 375 | 190 | 250 |
| Working voltage (at 21 000 m/70 000 ft., in V rms, 50 Hz) | | 85 | 125 | 65 | 85 |
| RF withstanding voltage at 5 MHz (V rms) | 3.23 | 670 | 1000 | 500 | 670 |
| Insulation resistance | 3.11 | ≥ 5·10 ³ MΩ | | | |
| Contact resistance - centre contact - outer contact | 3.16 | ≤ 3 mΩ ≤ 2.5 mΩ | | | |

Typical RL for HUBER+SUHNER standard SMA cable connectors

| Typical RL (dB) | Frequency range | | | | | Cable group |
|------------------------|-----------------|---------|-------|----------|--------|-------------|
| | 1 GHz | 2.5 GHz | 5 GHz | 12.4 GHz | 18 GHz | |
| Connector type | | | | | | |
| Straight connectors | 37 | 37 | 37 | 29 | 28 | Y3, Y11 |
| | 37 | 37 | 34 | 29 | 23 | Y5, Y12 |
| | 32 | 29 | 28 | | | U2, U4 |
| | 34 | 32 | 29 | | | U7, U9 |
| Right angle connectors | 37 | 32 | 26 | 19 | | Y3, Y11 |
| | 37 | 32 | 28 | 22 | | Y5, Y12 |
| | 32 | 29 | 26 | | | U2, U4 |
| | 37 | 32 | 29 | | | U7, U9 |


Technical Data

Typical RL for HUBER+SUHNER® ECO SMA cable connectors

| Typical RL (dB) | Frequency range | | | | Cable group |
|------------------------|-----------------|---------|-------|-------|-------------|
| | 1 GHz | 2.5 GHz | 5 GHz | 6 GHz | |
| Connector type | | | | | |
| Straight connectors | 36 | 36 | 35 | 30 | Y3, Y11 |
| | 36 | 36 | 35 | 30 | Y5, Y12 |
| | 32 | 29 | 26 | 25 | U2, U4 |
| | 34 | 32 | 27 | 25 | U7, U9 |
| Right angle connectors | 36 | 32 | 26 | 25 | Y3, Y11 |
| | 36 | 32 | 28 | 24 | Y5, Y12 |
| | 32 | 29 | 26 | 25 | U2, U4 |
| | 36 | 32 | 26 | 25 | U7, U9 |

| Mechanical data | MIL-C-39012 | | |
|-------------------------------------|-------------|------------------------------|-----------------------------------|
| Recommended coupling nut torque | | HUBER+SUHNER standard SMA | 0.8 ± 1.1 Nm (7.1 ± 9.7 in. lbs.) |
| | | HUBER+SUHNER® ECO SMA | 0.45 Nm (4.0 in. lbs) |
| Coupling nut retention force | 3.25 | ≥ 270 N / 60.7 lbs | |
| Contact captivation -axial | 3.12 | HUBER+SUHNER standard SMA | ≥ 27 N / 6.1 lbs. |
| | | HUBER+SUHNER® ECO SMA | ≥ 20 N / 5.4 lbs. |
| Cable retention force ¹⁾ | | see suitable cables, page 34 | |
| Durability (matings) | | ≤ 500 | |

¹⁾ Value considers maximum load of the cables without irreversible variations of specifications.

| Environmental data | Test conditions |
|---|---|
| Temperature range | -65°C ÷ +165°C / -85 °F ÷ +329 °F |
| Climatic category | IEC → 55/155/21 |
| Thermal shock | MIL-STD-202, Method 107, Condition B |
| Moisture resistance | MIL-STD-202, Method 106 |
| Corrosion | salt spray test acc. to MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition D |
| Shock | MIL-STD-202, Method 213, Condition I |
|  | Except the hermetic sealed SMA connectors all other connector types satisfy RoHS compatibility. |

Technical Data

| Material data | | | |
|-----------------------------|---------------------------|--|----------------------|
| Connector part | | Material | Plating |
| Bodies, outer contacts, nut | HUBER+SUHNER standard SMA | copper-beryllium alloy stainless steel, spring bronze | gold, passivated |
| | HUBER+SUHNER® ECO SMA | brass, spring bronze | SUCOPLATE®, SUCOPRO® |
| Pin contacts | | copper-beryllium alloy, brass | gold, SUCOPRO® |
| Socket contacts | | copper-beryllium alloy/spring bronze | gold |
| Crimp ferrules | | copper, brass | gold |
| Insulators | | PTFE or PFA | |
| Gaskets | | silicone rubber | |

HUBER+SUHNER SMA connectors satisfy in principle the above technical data. For detailed specifications refer to the published data sheets on our webpage www.hubersuhner.com.

Straight Cable Plugs (Male)

For semi-rigid cables

- With pin and insulator
- Cable entry soldered
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Fig. | Notes |
|------------------------------------|----------|---------------|-------------|----------------------|--------------|------|--------------------------------|
| 11_SMA-50-1-1/111_NE ¹⁾ | 22642387 | single | Y19 | 9118 | gold | 1 | |
| 11_SMA-50-1-2/111_NE ¹⁾ | 22642388 | single | Y2, Y15 | 9119 | gold | 1 | |
| 11_SMA-50-1-53/119_NH | 23013327 | bulk 100 pcs. | Y2, Y15 | 150006 | gold | 2 | nut passivated stainless steel |

1) Compound 74_Z0-0-116 needed

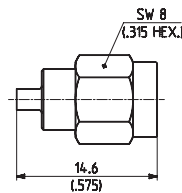


Fig. 1

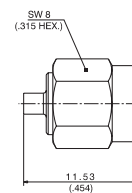


Fig. 2

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Fig. | Notes |
|--------------------------------------|----------|---------------|-------------|----------------------|--------------|------|--------------------------------|
| 11_SMA-50-2-15/111_NE | 22544545 | single | Y3, Y11, | 9056 | gold | 1 | |
| 11_SMA-50-2-15/111_NH | 22645898 | bulk 100 pcs. | Y16 | | | | |
| 11_SMA-50-2-29/119_NH ¹⁾ | 22660366 | bulk 100 pcs. | Y11 | 27334 | gold | 2 | nut passivated stainless steel |
| 11_SMA-50-2-65/119_NE ¹⁾ | 22642315 | single | Y3, Y11, | 9056 | gold | 1 | nut passivated stainless steel |
| 11_SMA-50-2-65/119_NH ¹⁾ | 22645366 | bulk 100 pcs. | Y16 | | | | |
| 11_SMA-50-2-110/133_NE ²⁾ | 84130715 | single | Y3, Y11, | 0000349249 | SUCOPLATE® | 3 | |
| 11_SMA-50-2-110/133_NP ²⁾ | 84117816 | bulk 500 pcs. | Y16 | | | | |

1) Cable entry CuBe/gold

2) Use torque wrench 74_Z0-0-79

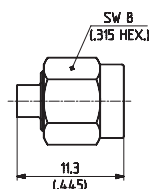


Fig. 1

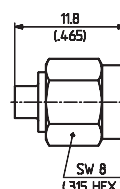


Fig. 2

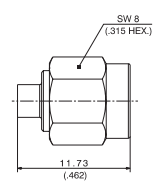


Fig. 3

All highlighted types are HUBER+SUHNER® ECO SMA types.

Cable groups see page 34 ff.

Straight Cable Plugs (Male)

For semi-rigid cables

- With pin and insulator
- Cable entry soldered
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Fig. | Notes |
|--|----------------------|-------------------------|-----------------|----------------------|--------------|------|--------------------------------|
| 11_SMA-50-3-15/111_NE 11_SMA-50-3-15/111_NH | 22544547 22651601 | single bulk 100 pcs. | Y5, Y12, Y17 | 9056 | gold | 1 | |
| 11_SMA-50-3-65/119_NE 11_SMA-50-3-65/119_NH | 22641643 22646570 | single bulk 100 pcs. | Y5, Y12, Y17 | 9056 | gold | 1 | nut passivated stainless steel |
| 11_SMA-50-3-235/133_NE ¹⁾ 11_SMA-50-3-235/133_NP ¹⁾ | 84130698 84104274 | single bulk 500 pcs. | Y5, Y12, Y17 | 0000333508 | SUCOPLATE® | 2 | |
| 11_SMA-50-5-1/111_NE | 22642399 | single | Y7, Y13 | 0000181414 | gold | 3 | |

1) Use torque wrench 74_Z00-79

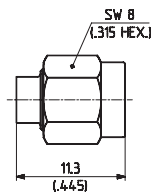


Fig. 1

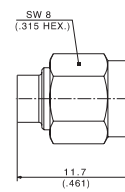


Fig. 2

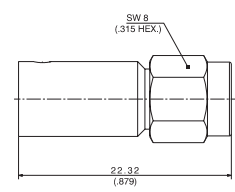


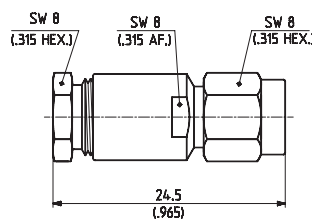
Fig. 3

Straight Cable Plugs (Male)

For flexible cables

- Cable entry clamp
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body |
|-----------------------|----------|---------------|-------------|----------------------|--------------|
| 11_SMA-50-3-7/111_NE | 22640050 | single | U7 | 3071 | gold |
| 11_SMA-50-3-8/111_NH | 22648630 | bulk 100 pcs. | U9, U11 | 3071 | gold |
| 11_SMA-50-3-10/111_NE | 22640053 | single | U9, U11 | 3071 | gold |



All highlighted types are HUBER+SUHNER® ECO SMA types.
Cable groups see page 34 ff.

Straight Cable Plugs (Male)

For flexible cables

- Cable entry crimp
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Crimp insert | Fig. | Notes |
|---------------------------------------|----------|---------------|-------------|----------------------|----------------------------|--------------|------|-------------|
| 11_SMA-50-1-4/111_NE | 22645871 | single | U1 | 27061 | gold | A | 1 | |
| 11_SMA-50-1-7/111_NE | 22660329 | single | X1 | 27061 | gold | A | 2 | |
| 11_SMA-50-2-5/111_NE | 22640042 | single | U2 | 27266 | gold | A | 1 | |
| 11_SMA-50-2-5/111_NH | 22646312 | bulk 100 pcs. | | | | | | |
| 11_SMA-50-2-6/111_NE | 22640043 | single | U4 | 27266 | gold | A | 1 | |
| 11_SMA-50-2-6/111_NH | 22650740 | bulk 100 pcs. | | | | | | |
| 11_SMA-50-2-27/111_NE ¹⁾ | 84022967 | single | U2 | 27164 | gold | 1 A | 1 | |
| 11_SMA-50-2-27/111_NH ¹⁾ | 22652923 | bulk 100 pcs. | | | | | | |
| 11_SMA-50-2-55/199_NE | 22641377 | single | U2 | 3069 | passivated stainless steel | A | 1 | |
| 11_SMA-50-2-56/199_NE | 22641376 | single | U4 | 3069 | passivated stainless steel | A | 1 | |
| 11_SMA-50-2-56/199_NH | 22651486 | bulk 100 pcs. | | | | | | |
| 11_SMA-50-2-111/133_NE ²⁾ | 84130699 | single | U2 | 0000348839 | SUCOPLATE® | A | 3 | |
| 11_SMA-50-2-111/133_NP ²⁾ | 84117820 | bulk 500 pcs. | | | | | | |
| 11_SMA-50-2-112/133_NE ²⁾ | 84130700 | single | U4 | 0000347891 | SUCOPLATE® | A | 3 | |
| 11_SMA-50-2-112/133_NP ²⁾ | 84115820 | bulk 500 pcs. | | | | | | |
| 11_SMA-R50-2-113/133_NE ²⁾ | 84130701 | single | U4 | 0000360393 | SUCOPLATE® | A | 3 | reverse SMA |
| 11_SMA-R50-2-113/133_NP ²⁾ | 84117824 | bulk 500 pcs. | | | | | | |

1) HUBER+SUHNER® full crimp
 2) Use torque wrench 74_Z00-79.

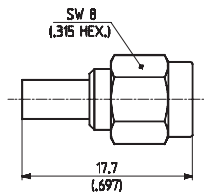


Fig. 1

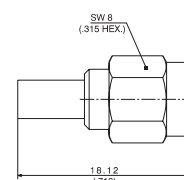


Fig. 2

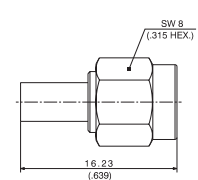


Fig. 3

All highlighted types are HUBER+SUHNER® ECO SMA types.
 Cable groups see page 34 ff.

Straight Cable Plugs (Male)

For flexible cables

- Cable entry crimp
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Crimp insert | Fig. | Notes |
|--|----------------------|-------------------------|-----------------|----------------------|----------------------------|--------------|------|-------------|
| 11_SMA-50-3-5/111_NE 11_SMA-50-3-5/111_NH | 22640048 22644684 | single bulk 100 pcs. | U7 | 3069 | gold | B | 1 | |
| 11_SMA-50-3-6/111_NE 11_SMA-50-3-6/111_NH | 22640049 22650739 | single bulk 100 pcs. | U9, U11 | 3069 | gold | B | 1 | |
| 11_SMA-50-3-55/199_NE | 22641371 | single | U7 | 3069 | passivated stainless steel | B | 1 | |
| 11_SMA-50-3-56/199_NE 11_SMA-50-3-56/199_NH | 22543647 22648300 | single bulk 100 pcs. | U9, U11 | 3069 | passivated stainless steel | B | 1 | |
| 11_SMA-50-3-236/133_NE ¹⁾ 11_SMA-50-3-236/133_NP ¹⁾ | 84130702 84117821 | single bulk 500 pcs. | U9, U11 | 0000349507 | SUCOPLATE® | B | 2 | |
| 11_SMA-50-3-237/133_NE ¹⁾ 11_SMA-50-3-237/133_NP ¹⁾ | 84130709 84117823 | single bulk 500 pcs. | U7 | 0000349571 | SUCOPLATE® | B | 3 | |
| 11_SMA-R50-3-238/133_NE ¹⁾ 11_SMA-R50-3-238/133_NP ¹⁾ | 84130704 84117825 | single bulk 500 pcs. | U9, U11 | 0000360525 | SUCOPLATE® | B | 2 | reverse SMA |
| 11_SMA-50-4-50/133_NE ¹⁾ 11_SMA-50-4-50/133_NP ¹⁾ | 84130705 84112519 | single bulk 500 pcs. | S16, X9, X26 | 0000347768 | SUCOPLATE® | C | 4 | |

1) Use torque wrench 74_Z00-79.

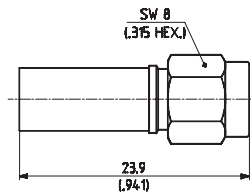


Fig. 1

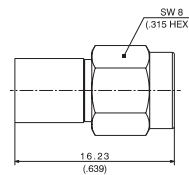


Fig. 2

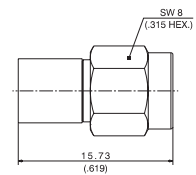


Fig. 3

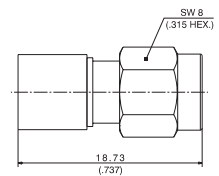


Fig. 4

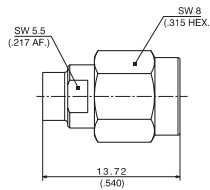
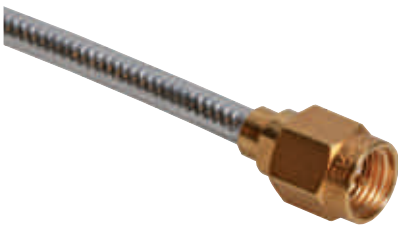
All highlighted types are HUBER+SUHNER® ECO SMA types.
Cable groups see page 34 ff.

26.5 GHz – Straight Cable Plugs (Male)

For semi-rigid cables

- With pin and isolator
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body |
|------------------------|----------|---------------|--------------|----------------------|--------------|
| 11_SMA-50-3-100/111_NE | 22648718 | single | Y5, Y12, Y17 | 0000181590 | gold |
| 11_SMA-50-3-100/111_NH | 22658936 | bulk 100 pcs. | | | |



- Without pin and isolator

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Fig. | Notes |
|-----------------------|----------|---------------|-------------|----------------------|--------------|------|--------------------------------|
| 11_SMA-50-3-14/-11_NH | 22644467 | bulk 100 pcs. | Y5 | 9055 | gold | 1 | |
| 11_SMA-50-3-16/-11_NH | 22644470 | bulk 100 pcs. | Y5 | 9055 | gold | 2 | |
| 11_SMA-50-3-42/-33_NE | 22649222 | single | Y5 | 9055 | SUCOPLATE® | 2 | |
| 11_SMA-50-3-42/-33_NH | 22646128 | bulk 100 pcs. | | | | | |
| 11_SMA-50-3-64/-19_NH | 22649224 | bulk 100 pcs. | Y5 | 9055 | gold | 1 | nut passivated stainless steel |
| 11_SMA-50-3-66/-19_NE | 22641644 | single | Y5 | 9055 | gold | 2 | nut passivated stainless steel |
| 11_SMA-50-3-66/-19_NH | 22645207 | bulk 100 pcs. | | | | | |

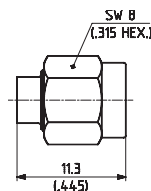


Fig. 1

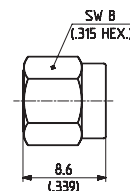


Fig. 2

Cable groups see page 34 ff.

Right Angle Cable Plugs (Male)

For semi-rigid cables

- With pin and isolator
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Fig. | Notes |
|--|----------------------|-------------------------|-----------------|----------------------|--------------|------|--------------------------------|
| 16_SMA-50-2-53/119_NE 16_SMA-50-2-53/119_NH | 22644242 22646639 | single bulk 100 pcs. | Y3, Y11, Y16 | 3068 | gold | 1 | nut passivated stainless steel |
| 16_SMA-50-2-103/111_NE 16_SMA-50-2-103/111_NH | 84018309 22652924 | single bulk 100 pcs. | Y3, Y11, Y16 | 3068 | gold | 1 | |
| 16_SMA-50-2-110/133_NE ¹⁾ 16_SMA-50-2-110/133_NP ¹⁾ | 84130706 84117807 | single bulk 500 pcs. | Y3, Y11, Y16 | 0000335631 | SUCOPLATE® | 2 | |

1) Use torque wrench 74_Z00-79.

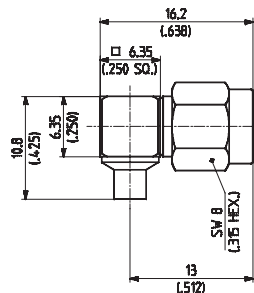


Fig. 1

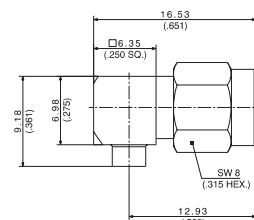


Fig. 2

- With pin and isolator
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Fig. | Notes |
|--|----------------------|-------------------------|-----------------|----------------------|--------------|------|--------------------------------|
| 16_SMA-50-3-3/111_NE 16_SMA-50-3-3/111_NH | 22640073 22646569 | single bulk 100 pcs. | Y5, Y12, Y17 | 3068 | gold | 1 | |
| 16_SMA-50-3-13/133_NE ¹⁾ 16_SMA-50-3-13/133_NP ¹⁾ | 84130707 84117810 | single bulk 500 pcs. | Y5, Y12, Y17 | 0000335642 | SUCOPLATE® | 2 | |
| 16_SMA-50-3-53/119_NE 16_SMA-50-3-53/119_NH | 22644243 22646561 | single bulk 100 pcs. | Y5, Y12, Y17 | 3068 | gold | 1 | nut passivated stainless steel |

1) Use torque wrench 74_Z00-79.

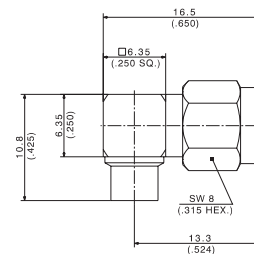


Fig. 1

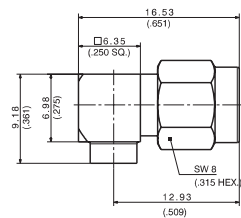


Fig. 2

All highlighted types are HUBER+SUHNER® ECO SMA types.
Cable groups see page 34 ff.

Right Angle Cable Plugs (Male)

For flexible cables

- Cable entry crimp
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Crimp insert | Fig. | Notes |
|--|----------------------|-------------------------|-------------|----------------------|-------------------------------|--------------|------|----------------|
| 16_SMA-50-1-1/111_NE 16_SMA-50-1-1/111_NH | 22641805 22660358 | single bulk 100 pcs. | U1 | 3070 | gold | A | 1 | |
| 16_SMA-50-2-55/199_NE 16_SMA-50-2-55/199_NH | 22642661 84028953 | single bulk 100 pcs. | U2 | 3070 | passivated stainless steel | A | 2 | |
| 16_SMA-50-2-56/199_NE 16_SMA-50-2-56/199_NH | 22642662 22658888 | single bulk 100 pcs. | U4 | 3070 | passivated stainless steel | A | 2 | |
| 16_SMA-50-2-105/111_NE 16_SMA-50-2-105/111_NH | 22651455 22651456 | single bulk 100 pcs. | U2 | 3070 | gold | A | 1 | |
| 16_SMA-50-2-106/111_NE 16_SMA-50-2-106/111_NH | 22651457 22651458 | single bulk 100 pcs. | U4 | 3070 | gold | A | 1 | |
| 16_SMA-50-2-111/133_NE ¹⁾ 16_SMA-50-2-111/133_NP ¹⁾ | 84130708 84117808 | single bulk 500 pcs. | U2 | 0000335656 | SUCOPLATE® | A | 3 | |
| 16_SMA-50-2-112/133_NE ¹⁾ 16_SMA-50-2-112/133_NP ¹⁾ | 84130709 84117809 | single bulk 500 pcs. | U4 | 0000335656 | SUCOPLATE® | A | 3 | |
| 16_SMA-R50-2-113/133_NE ¹⁾ 16_SMA-R50-2-113/133_NP ¹⁾ | 84130710 84117814 | single bulk 500 pcs. | U4 | 0000368977 | SUCOPLATE® | A | 3 | reverse SMA |

1) Use torque wrench 74_Z00-79.

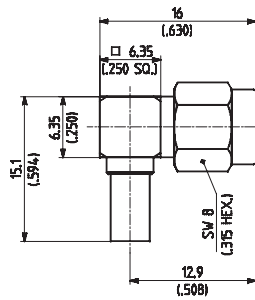


Fig. 1

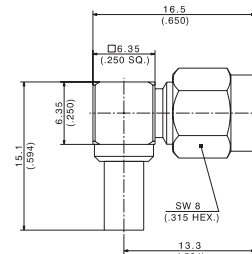


Fig. 2

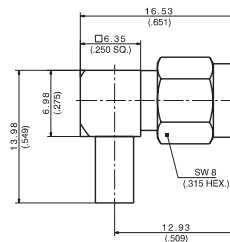


Fig. 3

All highlighted types are HUBER+SUHNER® ECO SMA types.
Cable groups see page 34 ff.

Right Angle Cable Plugs (Male)

For flexible cables

- Cable entry crimp
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Crimp insert | Fig. | Notes |
|--|----------------------|-------------------------|-----------------|----------------------|----------------------------|--------------|------|-------------|
| 16_SMA-50-3-14/133_NE ¹⁾ 16_SMA-50-3-14/133_NP ¹⁾ | 84130711 84117811 | single bulk 500 pcs. | U9, U11 | 0000335678 | SUCOPLATE® | B | 1 | |
| 16_SMA-50-3-15/133_NE ¹⁾ 16_SMA-50-3-15/133_NP ¹⁾ | 84130712 84117812 | single bulk 500 pcs. | U7, X7 | 0000335679 | SUCOPLATE® | B | 2 | |
| 16_SMA-R50-3-16/133_NE ¹⁾ 16_SMA-R50-3-16/133_NP ¹⁾ | 84130713 84117815 | single bulk 500 pcs. | U9, U11 | 0000368978 | SUCOPLATE® | B | 1 | reverse SMA |
| 16_SMA-50-3-56/199_NE | 22642660 | single | U9, U11 | 3070 | passivated stainless steel | B | 3 | |
| 16_SMA-50-3-105/111_NE 16_SMA-50-3-105/111_NH | 22651585 22651800 | single bulk 100 pcs. | U7 | 3070 | gold | B | 4 | |
| 16_SMA-50-3-106/111_NE 16_SMA-50-3-106/111_NH | 22650546 22650545 | single bulk 100 pcs. | U9, U11 | 3070 | gold | B | 4 | |
| 16_SMA-50-4-50/133_NE ¹⁾ 16_SMA-50-4-50/133_NP ¹⁾ | 84130714 84117813 | single bulk 500 pcs. | S16, X9, X26 | 0000335684 | SUCOPLATE® | C | 5 | |

1) Use torque wrench 74_Z00-79.

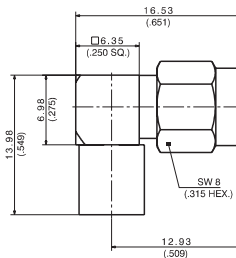


Fig. 1

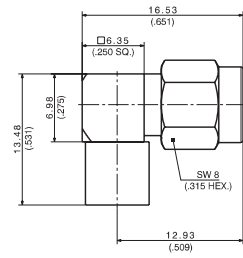


Fig. 2

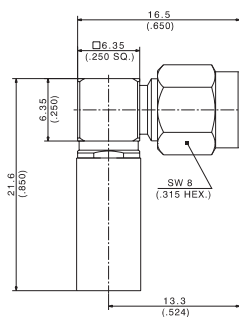


Fig. 3

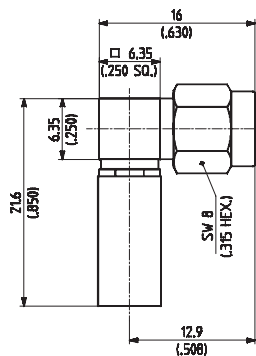


Fig. 4

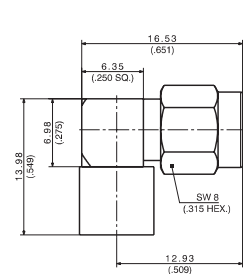


Fig. 5

All highlighted types are HUBER+SUHNER® ECO SMA types.
Cable groups see page 34 ff.

26.5 GHz – Right Angle Cable Plugs (Male)

For semi-rigid cables

- With pin and isolator
- Centre contact plugged

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Fig. |
|------------------------|----------|---------------|--------------|----------------------|----------------------------|------|
| 16_SMA-50-2-100/199_NH | 23018813 | bulk 100 pcs. | Y3, Y11, Y16 | 27055 | passivated stainless steel | 1 |
| 16_SMA-50-3-100/199_NE | 22648293 | single | Y5, Y12, Y17 | 27055 | passivated stainless steel | 2 |

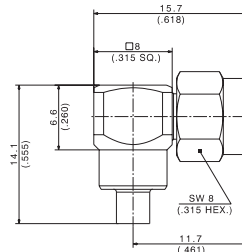


Fig. 1

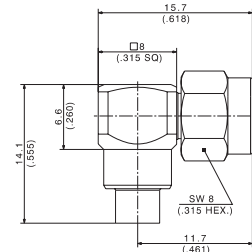


Fig. 2

Straight Cable Jacks (Female)

For semi-rigid cables

- Cable entry soldered
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Fig. |
|-----------------------|----------|---------------|--------------|----------------------|--------------|------|
| 21_SMA-50-1-1/111_NE | 22642385 | single | Y19 | 9118 | gold | 1 |
| 21_SMA-50-1-2/111_NE | 22642386 | single | Y2, Y15 | 9119 | gold | 1 |
| 21_SMA-50-2-15/111_NE | 22544549 | single | Y3, Y11, Y16 | 9057 | gold | 2 |
| 21_SMA-50-2-15/111_NH | 22652141 | bulk 100 pcs. | | | | |
| 21_SMA-50-3-15/111_NE | 22544550 | single | Y5, Y12, Y17 | 9057 | gold | 3 |
| 21_SMA-50-3-15/111_NH | 22645042 | bulk 100 pcs. | | | | |

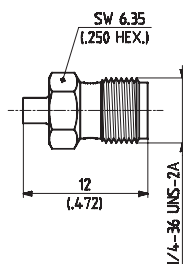


Fig. 1

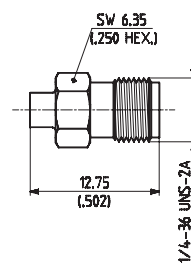


Fig. 2

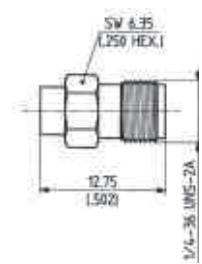


Fig. 3

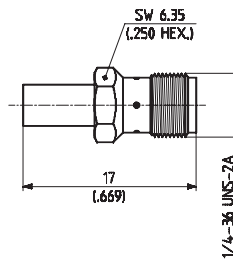
Cable groups see page 34 ff.

Straight Cable Jacks (Female)

For flexible Cables

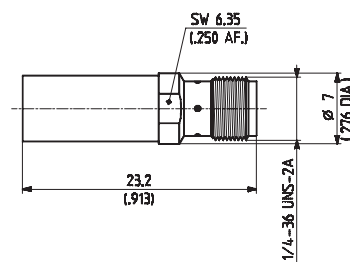
- Cable entry crimp
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Crimp insert |
|--|----------------------|-------------------------|-------------|----------------------|--------------|--------------|
| 21_SMA-50-2-5/111_NE | 22640077 | single | U2 | 3069 | gold | A |
| 21_SMA-50-2-6/111_NE 21_SMA-50-2-6/111_NH | 22640078 22651818 | single bulk 100 pcs. | U4 | 3069 | gold | A |



- Cable entry crimp
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Crimp insert |
|----------------------|----------|-----------|-------------|----------------------|--------------|--------------|
| 21_SMA-50-3-5/111_NE | 22640081 | single | U7 | 3069 | gold | B |
| 21_SMA-50-3-6/111_NE | 22640082 | single | U9, U11 | 3069 | gold | B |



Cable groups see page 34 ff.

Straight bulkhead Cable Jacks (Female)

For semi-rigid cables

- Cable entry soldered
- Centre contact soldered
- With panel seal

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Mounting hole | Fig. |
|--|----------------------|-------------------------|--------------|----------------------|--------------|---------------|------|
| 24_SMA-50-2-15/111_NE 24_SMA-50-2-15/111_NH | 22544532 22645490 | single bulk 100 pcs. | Y3, Y11, Y16 | 9057 | gold | ML 35 | 1 |
| 24_SMA-50-2-41/133_NE 24_SMA-50-2-41/133_NH | 22641381 22645368 | single bulk 100 pcs. | Y3, Y11, Y16 | 0000185051 | SUCOPLATE® | ML 20 | 2 |

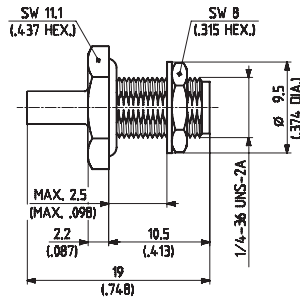


Fig. 1

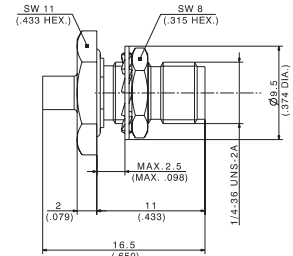


Fig. 2

- Cable entry soldered
- Centre contact soldered
- With panel seal

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Mounting hole | Fig. |
|--|----------------------|-------------------------|--------------|----------------------|--------------|---------------|------|
| 24_SMA-50-3-15/111_NE 24_SMA-50-3-15/111_NH | 22641153 22645259 | single bulk 100 pcs. | Y5, Y12, Y17 | 9057 | gold | ML 35 | 1 |
| 24_SMA-50-3-17/111_NH | 23040704 | bulk 100 pcs. | Y5, Y12, Y17 | 3066 | SUCOPRO® | ML 35 | 2 |

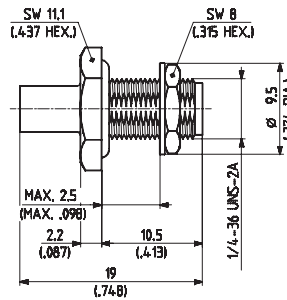


Fig. 1

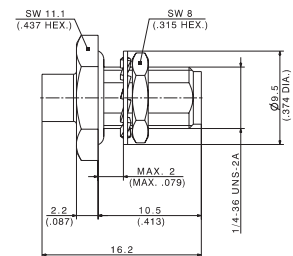


Fig. 2

All highlighted types are HUBER+SUHNER® ECO SMA types.
Cable groups see page 34 ff.
Mounting holes see page 38.

Straight bulkhead Cable Jacks (Female)

For flexible cables

- Cable entry crimp
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Mounting hole | Crimp insert | Fig. | Notes |
|------------------------|----------|---------------|-------------|----------------------|--------------|---------------|--------------|------|-------------|
| 24_SMA-50-1-3/111_NE | 22649873 | single | U1 | 27104 | gold | ML 35 | A | 1 | |
| 24_SMA-50-2-13/111_NE | 22651767 | single | U4 | 3069 | gold | ML 20 | A | 2 | |
| 24_SMA-50-2-13/111_NH | 22651719 | bulk 100 pcs. | | | | | | | |
| 24_SMA-50-2-14/111_NE | 22651748 | single | U2 | 3069 | gold | ML 20 | A | 2 | |
| 24_SMA-50-2-14/111_NH | 22651747 | bulk 100 pcs. | | | | | | | |
| 24_SMA-50-2-45/133_NE | 22644245 | single | U4 | 3069 | SUCOPLATE® | ML 20 | A | 2 | |
| 24_SMA-50-2-45/133_NH | 22652352 | bulk 100 pcs. | | | | | | | |
| 24_SMA-50-2-46/133_NE | 22644246 | single | U2 | 3069 | SUCOPLATE® | ML 20 | A | 2 | |
| 24_SMA-50-2-46/133_NH | 22646565 | bulk 100 pcs. | | | | | | | |
| 24_SMA-R50-2-51/133_NE | 23011465 | single | U2 | 0000292354 | SUCOPLATE® | ML 35 | A | 3 | reverse SMA |
| 24_SMA-50-3-42/133_NE | 22641358 | single | U9 | 3072 | SUCOPLATE® | ML 20 | B | 4 | |

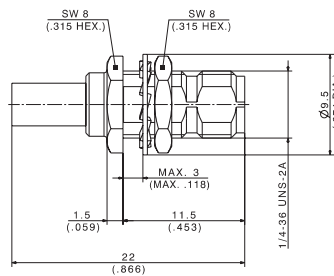


Fig. 1

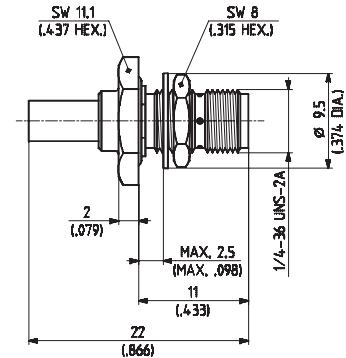


Fig. 2

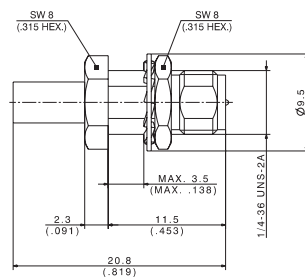


Fig. 3

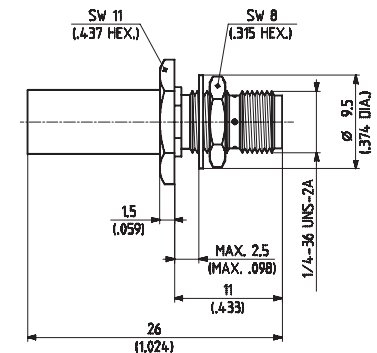


Fig. 4

All highlighted types are HUBER+SUHNER® ECO SMA types.

Cable groups see page 34 ff.

Mounting holes see page 38.

26.5 GHz – Straight bulkhead Cable Jacks (Female)

For semi-rigid cables

- Cable entry soldered
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Mounting hole | Fig. |
|------------------------|----------|-----------|--------------|----------------------|--------------|---------------|------|
| 24_SMA-50-2-100/111_NE | 22648727 | single | Y3, Y11, Y16 | 27055 | gold | ML 35 | 1 |
| 24_SMA-50-3-100/111_NE | 22648728 | single | Y5, Y12, Y17 | 27055 | gold | ML 35 | 2 |

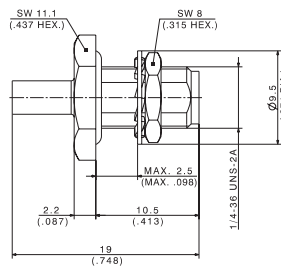


Fig. 1

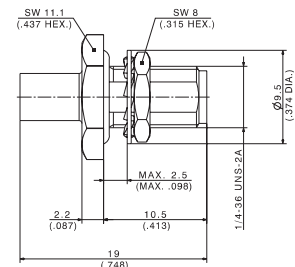


Fig. 2

Straight Panel Cable Jacks (Female)

For semi-rigid cables

- Cable entry soldered
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Mounting hole | Fig. |
|--|----------------------|-------------------------|--------------|----------------------|--------------|---------------|------|
| 25_SMA-50-1-2/111_NE | 22642390 | single | Y2, Y15 | 9119 | gold | ML 19 | 1 |
| 25_SMA-50-1-4/111_NE 25_SMA-50-1-4/111_NH | 22642391 23017424 | single bulk 100 pcs. | Y2, Y15 | 9119 | gold | - | 2 |
| 25_SMA-50-2-15/111_NE ¹⁾ | 22544551 | single | Y3, Y11, Y16 | 9057 | gold | ML 19 | 1 |
| 25_SMA-50-2-25/111_NE ¹⁾ | 22641493 | single | Y3, Y11, Y16 | 9057 | gold | - | 2 |

1) Centre contact not captivated.

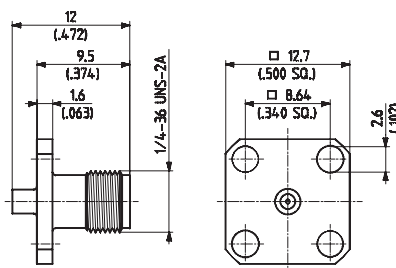


Fig. 1

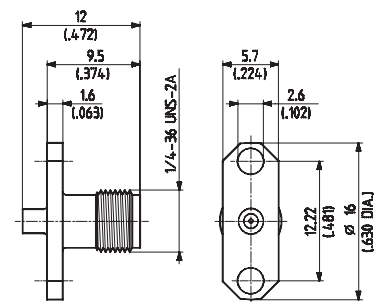


Fig. 2

Cable groups see page 34 ff.
Mounting holes see page 38.

Straight Panel Cable Jacks (Female)

For semi-rigid cables

- Cable entry soldered
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Mounting hole | Fig. |
|-------------------------------------|----------|---------------|--------------|----------------------|--------------|---------------|------|
| 25_SMA-50-3-15/111_NE ¹⁾ | 22544552 | single | Y5, Y12, Y17 | 9057 | gold | ML 19 | 1 |
| 25_SMA-50-3-15/111_NH ¹⁾ | 22644717 | bulk 100 pcs. | | | | | |
| 25_SMA-50-3-25/111_NE ¹⁾ | 22641410 | single | Y5, Y12, Y17 | 9057 | gold | - | 2 |

1) Centre contact not captivated

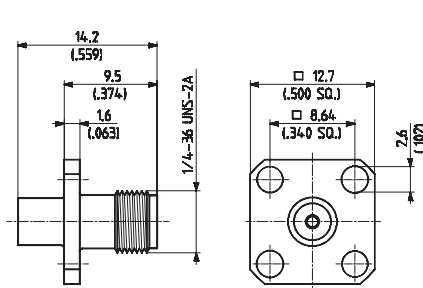


Fig. 1

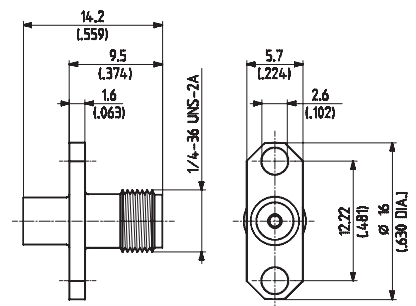
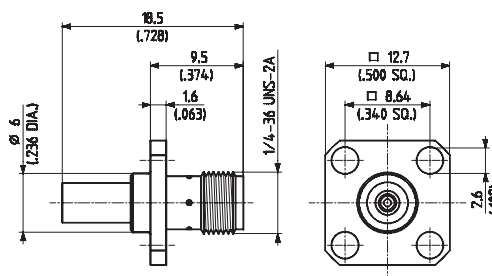


Fig. 2

- Cable entry crimp
- Centre contact soldered

| Description | Item no. | Packaging | Cable group | Assembly instruction | Plating body | Mounting hole | Crimp insert |
|-----------------------|----------|---------------|-------------|----------------------|--------------|---------------|--------------|
| 25_SMA-50-2-5/111_NE | 22640112 | single | U2 | 3072 | gold | ML 19 | A |
| 25_SMA-50-2-5/111_NH | 22650755 | bulk 100 pcs. | | | | | |
| 25_SMA-50-2-6/111_NE | 22640113 | single | U4 | 3072 | gold | ML 19 | A |
| 25_SMA-50-2-46/133_NE | 22642246 | single | U4 | 3072 | SUCOPLATE® | ML 19 | A |



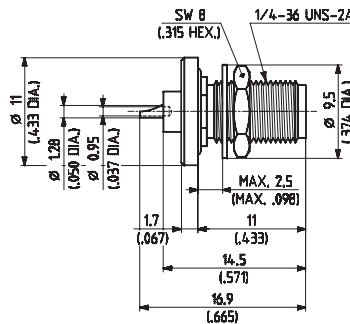
All highlighted types are HUBER+SUHNER® ECO SMA types.
 Cable groups see page 34 ff.
 Mounting holes see page 38.

Straight bulkhead Receptacles

With solder end, jacks (female)

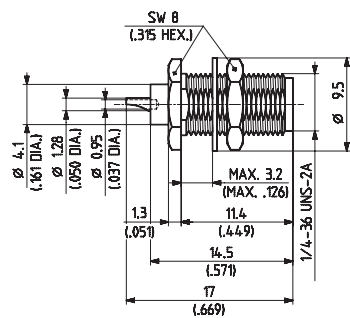
- With panel seal

| Description | Item no. | Packaging | Plating body | Mounting hole | Mounting |
|----------------------|----------|-----------|--------------|---------------|---------------|
| 22_SMA-50-0-1/111_NE | 22640087 | single | gold | ML 20 | rear mounting |



- Without panel seal

| Description | Item no. | Packaging | Plating body | Mounting hole | Mounting |
|----------------------|----------|---------------|--------------|---------------|---------------|
| 22_SMA-50-0-4/111_NE | 22640962 | single | gold | ML 35 | rear mounting |
| 22_SMA-50-0-4/111_NH | 22649418 | bulk 100 pcs. | gold | ML 35 | rear mounting |



Straight bulkhead Receptacles

With coaxial end, jacks (female)

- Without panel seal

| Description | Item no. | Packaging | Plating body | Mounting hole | Mounting | Fig. |
|-------------------------------------|----------|---------------|----------------------------|---------------|----------------|------|
| 22_SMA-50-0-3/111_NE | 22640089 | single | gold | ML 98 | Front mounting | 1 |
| 22_SMA-50-0-53/199_NE | 22543498 | single | passivated stainless steel | ML 98 | Front mounting | 1 |
| 22_SMA-50-0-83/133_NH ¹⁾ | 84014290 | bulk 100 pcs. | SUCOPLATE® | ML 177 | Front mounting | 2 |

1) Use torque wrench 74_Z00-79

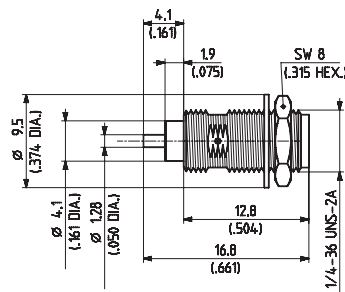


Fig. 1

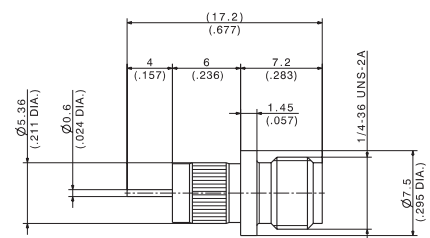


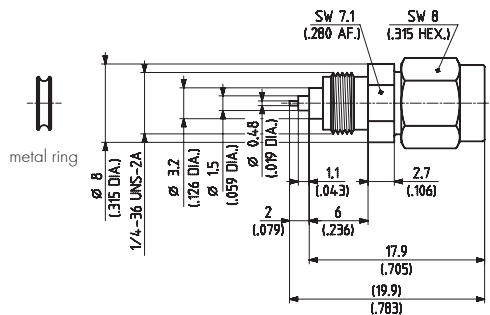
Fig. 2

Hermetically sealed, plug (male)

- «Spark Plug» with metal ring seal
- RoHs compliant alternative on request
- Front mounting

| Description | Item no. | Packaging | Plating body | Mounting hole | Notes |
|--------------------------------------|----------|-----------|--------------|---------------|-------------------------------------|
| 12_SMA-50-0-110/111_NE ¹⁾ | 22652315 | single | gold | ML 42 | leak rate 10 ⁻⁸ Torr/sec |

1) Use assembly tool 74_Z00-75 and torque wrench 74_Z00-80



All highlighted types are HUBER+SUHNER® ECO SMA types.
Mounting holes see page 38.

Straight bulkhead Receptacles

Hermetically sealed, jacks (female)

- RoHs compliant alternative on request
- Front mounting

| Description | Item no. | Packaging | Plating body | Mounting hole | Fig. | Notes |
|--|----------------------|------------------------|--------------|---------------|------|--|
| 22_SMA-50-0-10/111_NE ¹⁾ | 22641291 | single | gold | ML 42 | 1 | «Spark Plug» with metal ring seal leak rate 10 ⁻⁸ Torr l/sec |
| 22_SMA-50-0-12/111_NE 22_SMA-50-0-12/111_NY | 84042904 22641293 | single tray 75 pcs. | gold | ML 98 | 2 | with panel seal tap drill 74_Z-0-0-24 leak rate 10 ⁻⁶ Torr l/sec |
| 22_SMA-50-0-15/111_NE | 22544588 | single | gold | ML 96 | 3 | for direct soldering ¹⁾ soldering temperature 250°C/482°F leak rate 10 ⁻⁸ Torr l/sec |

1) Use assembly tool 74_Z-0-0-75 and torque wrench 74_Z-0-0-80.



metal ring

Fig. 1

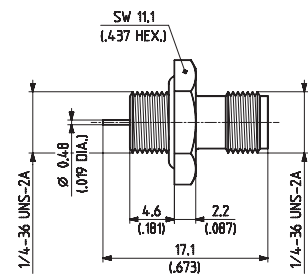
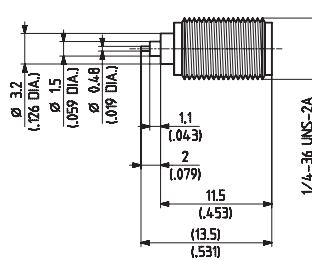


Fig. 2

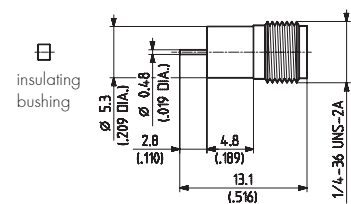


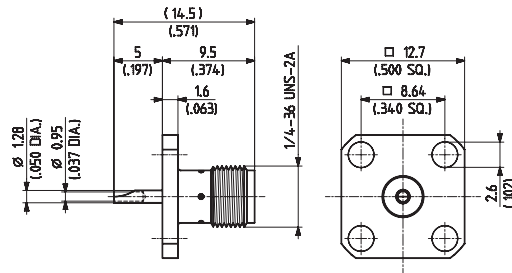
Fig. 3

insulating
bushing

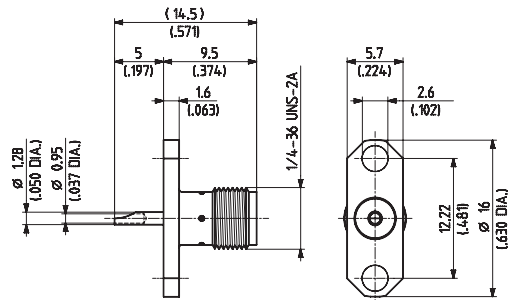
Straight Panel Receptacles

With solder end, jacks (female)

| Description | Item no. | Packaging | Plating body | Notes |
|--|----------------------|-------------------------|----------------------------|------------------|
| 23_SMA-50-0-1/111_NE 23_SMA-50-0-1/111_NH | 22640090 22651409 | single bulk 100 pcs. | gold | flush dielectric |
| 23_SMA-50-0-51/199_NE | 22543948 | single | passivated stainless steel | flush dielectric |

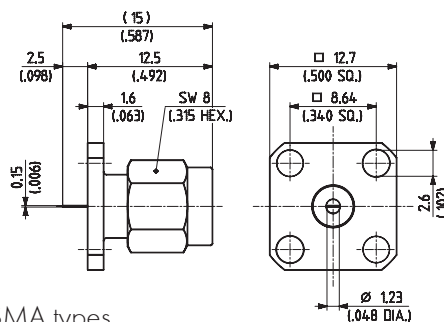


| Description | Item no. | Packaging | Plating body | Notes |
|--|----------------------|-------------------------|----------------------------|------------------|
| 23_SMA-50-0-11/111_NE | 22640095 | single | gold | flush dielectric |
| 23_SMA-50-0-41/133_NE 23_SMA-50-0-41/133_NH | 22543984 22644383 | single bulk 100 pcs. | SUCOPLATE® | flush dielectric |
| 23_SMA-50-0-61/199_NE | 22544796 | single | passivated stainless steel | flush dielectric |



With tab end, plug (male)

| Description | Item no. | Packaging | Plating body | Notes |
|----------------------|----------|-----------|--------------|------------------|
| 13_SMA-50-0-2/111_NE | 22640056 | single | gold | flush dielectric |

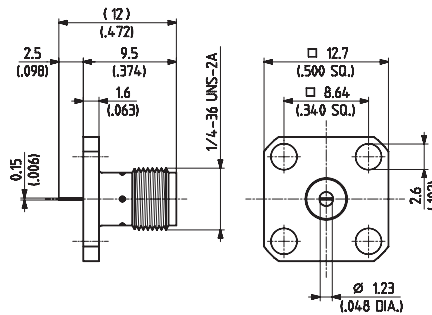


All highlighted types are HUBER+SUHNER® ECO SMA types.

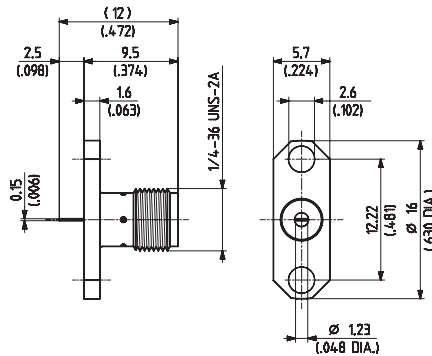
Straight Panel Receptacles

With tab end, jacks (female)

| Description | Item no. | Packaging | Plating body | Notes |
|-----------------------|----------|-----------|----------------------------|------------------|
| 23_SMA-50-0-2/111_NE | 22640091 | single | gold | flush dielectric |
| 23_SMA-50-0-52/199_NE | 22543487 | single | passivated stainless steel | flush dielectric |



| Description | Item no. | Packaging | Plating body | Notes |
|-----------------------|----------|-----------|----------------------------|------------------|
| 23_SMA-50-0-12/111_NE | 22640096 | single | gold | flush dielectric |
| 23_SMA-50-0-62/199_NE | 22544779 | single | passivated stainless steel | flush dielectric |



Straight Panel Receptacles

With coaxial end, jacks (female)

| Description | Item no. | Packaging | Plating body | Notes | Fig. |
|------------------------|----------|---------------|----------------------------|--|------|
| 23_SMA-50-0-3/111_NE | 22640092 | single | gold | extended dielectric | 1 |
| 23_SMA-50-0-13/111_NE | 22640097 | single | gold | extended dielectric | 2 |
| 23_SMA-50-0-13/111_NH | 22658873 | bulk 100 pcs. | gold | extended dielectric | 2 |
| 23_SMA-50-0-53/199_NE | 22641394 | single | Passivated stainless steel | extended dielectric | 1 |
| 23_SMA-50-0-53/199_NH | 22649843 | single | Passivated stainless steel | extended dielectric | 1 |
| 23_SMA-50-0-272/133_NH | 23030310 | bulk 100 pcs | SUCOPLATE® | extended dielectric | 3 |
| 23_SMA-50-0-324/111_NY | 84035778 | tray 100 pcs. | SUCOPRO® | extended dielectric with panel sealing | 4 |

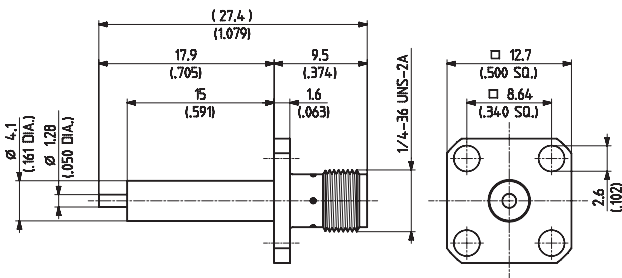


Fig. 1

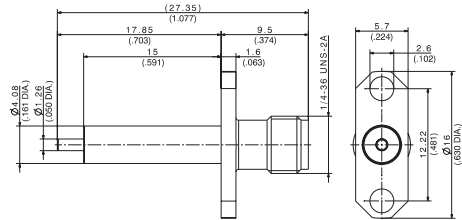


Fig. 2

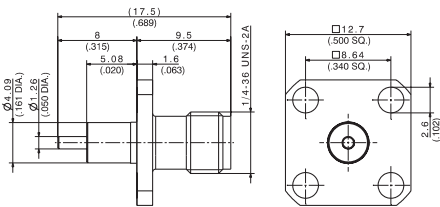


Fig. 3

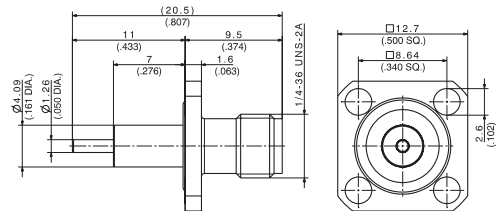


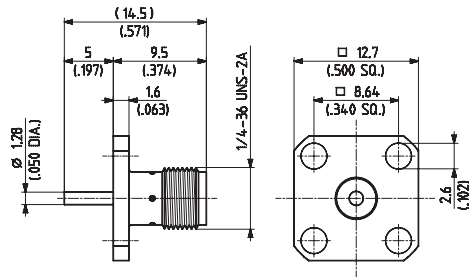
Fig. 4

All highlighted types are HUBER+SUHNER® ECO SMA types.

Straight Panel Receptacle

With coaxial end, jack (female)

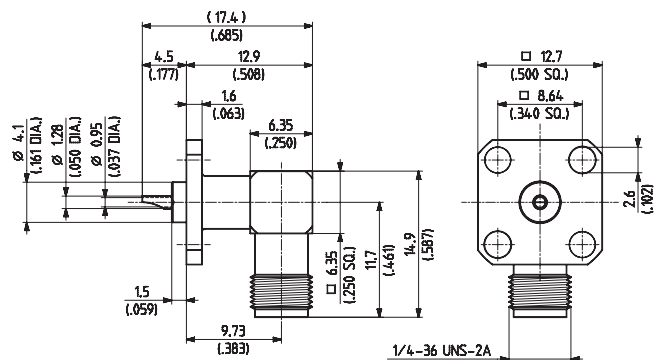
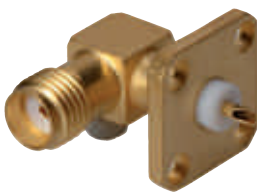
| Description | Item no. | Packaging | Plating body | Notes |
|-----------------------|----------|-----------|--------------|------------------|
| 23_SMA-50-0-21/111_NE | 22640101 | single | gold | flush dielectric |



Right Angle Panel Receptacle

With solder end, jack (female)

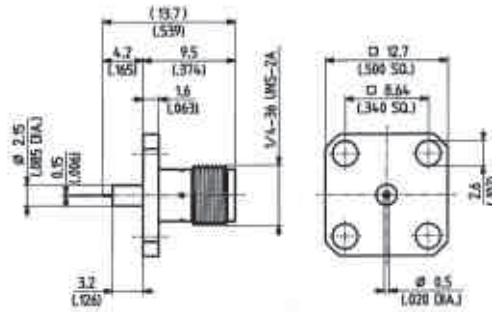
| Description | Item no. | Packaging | Plating body | Notes |
|----------------------|----------|-----------|--------------|---------------------|
| 28_SMA-50-0-1/111_NE | 22641321 | single | gold | extended dielectric |



26.5 GHz - Straight Panel Receptacle

With tab end, jack (female)

| Description | Item no. | Packaging | Plating body | Mounting hole | Notes |
|-----------------------|----------|-----------|----------------------------|---------------|---------------------|
| 23_SMA-50-0-94/199_NE | 22649049 | single | passivated stainless steel | ML 93 | extended dielectric |



Mounting holes see page 38.

PCB Connectors

Straight PCB jacks (female)

- edge mount

| Description | Item no. | Packaging | Plating body | Mounting hole | Fig. |
|--|----------------------|--------------------------------|--------------|---------------|------|
| 82_SMA-S50-0-45/111_NE 82_SMA-S50-0-45/111_NM | 22652330 84037646 | single tape & reel 500 pcs. | SUCOPRO® | ML 132 | 1 |
| 92_SMA-50-0-10/111_NE 92_SMA-50-0-10/111_NM | 84120623 84036781 | single tape & reel 500 pcs. | SUCOPRO® | ML 132 | 2 |

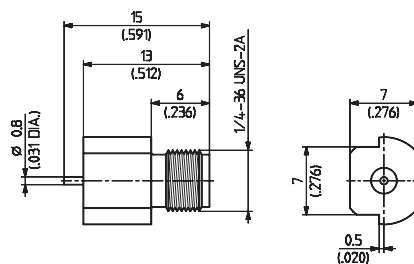


Fig. 1

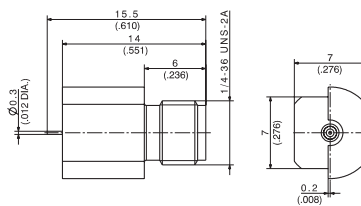
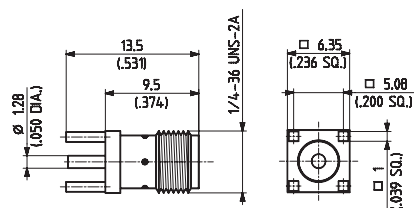


Fig. 2

Straight PCB jacks (female)

- without stand-off

| Description | Item no. | Packaging | Plating body | Mounting hole |
|--|----------------------|-------------------------|--------------|---------------|
| 82_SMA-50-0-1/111_NE 82_SMA-50-0-1/111_NH | 22543359 22644334 | single bulk 100 pcs. | gold | ML 41 |



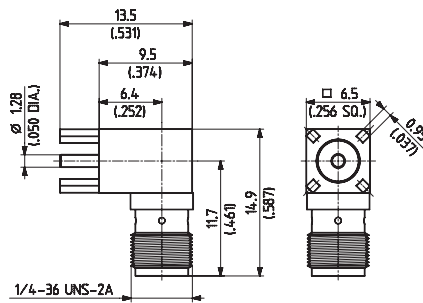
All highlighted types are HUBER+SUHNER® ECO SMA types.
Mounting holes see page 38.

PCB Connectors

Right Angle PCB jacks (female)

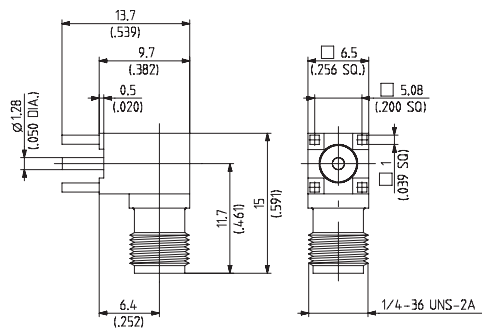
- without stand-off

| Description | Item no. | Packaging | Plating body | Mounting hole |
|------------------------|----------|---------------|--------------|---------------|
| 85_SMA-50-0-101/111_NE | 22658792 | single | gold | ML 41 |
| 85_SMA-50-0-101/111_NH | 22652140 | bulk 100 pcs. | | |



- with stand-off

| Description | Item no. | Packaging | Plating body | Mounting hole |
|------------------------|----------|---------------|--------------|---------------|
| 85_SMA-50-0-144/111_YH | 23000527 | bulk 100 pcs. | gold | ML 41 |



Protective Caps and Shorts

Caps for jacks

| Description | Item no. | Packaging | Plating body | Notes | Fig. |
|---------------------|----------|-----------|--------------|-----------------------------|------|
| 62_SMA-0-0-1/-11_NE | 22640159 | single | gold | humidity sealed, with chain | 1 |
| 62_SMA-0-0-8/-3_NE | 84120887 | single | SUCOPLATE® | with wire, IP 68 | 2 |

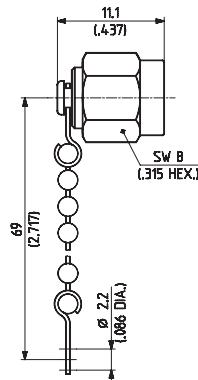


Fig. 1

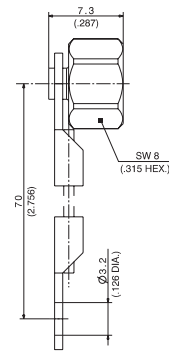
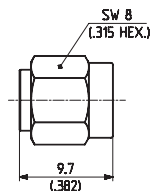


Fig. 2



Shorting cap

| Description | Item no. | Packaging | Plating body | Notes |
|----------------------|----------|-----------|--------------|-----------------|
| 64_SMA-50-0-1/111_NE | 22640161 | single | gold | humidity sealed |



All highlighted types are HUBER+SUHNER® ECO SMA types.

Suitable Cables

Flexible cables

| Screen type | Cable group | Cable type | Ω | Centre conductor | | | Insulation | |
|---------------|-------------|--|----------|--|------------------------------------|--|------------------------------|--|
| | | | | mm/inches | Material | \emptyset mm/inches | Material | \emptyset mm/inches |
| single screen | U1 | K_01232-05 RG_178_B/U EF_178 RG_196_A/U | 50 | 7x0.10/004 | CuStAg | 0.30/012 | PTFE PTFE SPEX PTFE | 0.83/033 0.83/033 082/032 0.83/033 |
| single screen | U2 | RG_174_/U RG_188A_/U RG_316_/U EF_316 | 50 | 7x 0.16/002 7x 0.18/007 0.18/007 0.18/007 | CuSt CuStAg CuStAg CuStAg | 0.48/019 0.54/021 0.54/021 0.54/021 | PE PTFE PTFE SPEX | 1.50/059 1.55/061 1.54/061 1.54/060 |
| double screen | U4 | G_02232_D K_02232_D K_02252_D EF_316_D | 50 | 7 x 0.16/006 7 x 0.18/007 7 x 0.18/007 7 x 0.18/007 | Cu CuStAg CuStAg CuStAg | 0.49/019 0.54/021 0.54/021 0.54/021 | PE PTFE PTFE SPEX | 1.50/059 1.54/061 1.54/061 1.54/061 |
| single screen | U7 | G_03232 GX_03272 RG_58_C/U RG_303_/U | 50 | 7 x 0.31/012 19 x 0.18/007 19 x 0.18/007 0.95/037 | Cu CuSn CuSn CuStAg | 0.93/037 0.90/035 0.90/035 0.95/037 | PE PEX PE PTFE | 2.95/116 |
| high screen | X7 | S_03262_B-61 SX_03272_B-60 | 50 | 1.065/042 | Cu | 1.065/042 | SPE | 2.96/116 |
| double screen | U9 | RG_142_B/U EF_142 RG_223_/U | 50 | 0.95/037 0.95/037 0.89/035 | CuStAg CuAg CuAg | 0.95/037 0.95/037 0.89/035 | PTFE SPEX PE | 2.95/116 |
| high screen | X9 | S_04162_B S_04272_B S_04212_B SX_04172_B-60 | 50 | 1.40/055 | Cu CuAg CuAg CuAg | 1.40/055 | SPE | 3.82/15 |
| double screen | U11 | RG_400_/U EF_400 | 50 | 19 x 0.19/008 | CuAg | 1.00/039 | PTFE SPEX | 2.95/116 3.03/119 |
| double screen | S16 | S_04262_D | 50 | 1.40/055 | CuAG | 1.40/055 | SPE | 3.78/148 |
| double screen | X26 | S_04262_D-09 SX_04272_D-02 | 50 | 1.40/055 | CuAg | 1.40/055 | SPE | 3.82/15 |

| Screen | | Jacket | | Cable retention force | Recommended operating frequency range | Notes |
|--|---------------------|----------|-------------|-----------------------|---------------------------------------|--------------------------|
| Material | Ø mm/inches | Material | Ø mm/inches | N/lbs. | | |
| CuAg | 1.30/0.51 | PVC | 1.80/071 | 32.7/7.3 | 1 GHz | |
| | 1.33/052 | FEP | 1.80/071 | | | |
| | 1.35/0.53 | RADOX® | 1.84/072 | | | |
| | 1.33/052 | PFA | 1.83/072 | | | |
| CuSn | 2.00/079 | PVC | 2.55/100 | 43.5/9.7 | 1 GHz | |
| CuAg | 2.00/079 | PFA | 2.60/102 | 54.4/12.1 | | |
| CuAg | 2.00/079 | FEP | 2.50/098 | 54.4/12.1 | | |
| CuAg | 2.05/080 | RADOX® | 2.52/099 | 54.4/12.1 | | |
| Cu/Cu CuAg/CuAg CuAg/CuAg CuAg/CuAg | 2.0-2.5/.08-.10 | PVC | 3.10/122 | 119.7/26.7 | 5 GHz | equivalent cable: RD 316 |
| | | UL-PVC | 3.00/118 | 108.8/24.3 | | |
| | | FEP | 3.00/118 | 108.8/24.3 | | |
| | | RADOX® | 3.10/122 | 108.8/24.3 | | |
| Cu CuAg CuSn CuAg | 3.60/.142 | PVC | 5.00/197 | 128.7/28.7 | 1 GHz | |
| | | RADOX® | 4.95/195 | | | |
| | | PVC | 4.95/195 | | | |
| | | FEP | 4.30/169 | | | |
| Al/Cu Al/CuSn | 3.20-3.80/.126-.15 | LSFH™ | 4.50/.177 | 153/34.4 | 5 GHz | |
| | | RADOX® | | 115/25.8 | | |
| CuAg/CuAg | 3.6-4.25/.142-.167 | FEP | 4.95/195 | 257.5/57.5 | 5 GHz | |
| | 3.54-4.20/.139-.165 | RADOX® | 4.95/195 | | | |
| | 3.6-4.20/.142-.165 | PVC | 5.40/213 | | | |
| Al/Cu Al/CuSn Al/CuSn Al/CuSn | 3.96-4.48/.156-.176 | LSFH™ | 5.50/216 | 130/29.2 | 6 GHz | |
| | 3.96-4.48/.156-.176 | PE | 5.50/216 | 130/29.2 | 18 GHz | |
| | 3.96-4.48/.156-.176 | PUR | 5.30/20 | 130/29.2 | 18 GHz | |
| | 4.0-4.53/.157-.178 | RADOX® | 5.50/216 | 128/28.8 | 6 GHz | |
| CuAg/CuAg | 3.6-4.20/.142-.165 | FEP | 4.95/195 | 257.5/57.5 | 5 GHz | |
| | 3.6-4.15/.142-.163 | RADOX® | 5.10/200 | | | |
| CuAg/CuAg | 4.2-4.7/.165-.185 | LSFH™ | 5.70/224 | 228.5/51.3 | 5 GHz | |
| CuAg/CuAg | 4.2-4.7/.165-.185 | LSFH™ | 5.70/224 | 247/55.5 | 6 GHz | |
| | | RADOX® | | 283/63.6 | | |

Semi-rigid cables

| Screen type | Cable group | Cable type | Centre conductor | | | Insulation | |
|------------------|-------------|-----------------|------------------|----------|-------------------------|------------|-------------------------|
| | | | Ω | Material | \varnothing mm/inches | Material | \varnothing mm/inches |
| tin soaked braid | Y2 | SUCOFORM_47_Cu | 50 | CuAg | 0.31/.012 | PTFE | 0.94/.037 |
| solid tube | Y3 | EZ_86 | 50 | CuStAg | 0.51/.020 | PTFE | 1.68/.066 |
| solid tube | Y5 | EZ_141 | 50 | CuStAg | 0.92/.036 | PTFE | 2.98/.117 |
| solid tube | Y7 | EZ_250 | 50 | CuAg | 1.63/.064 | PTFE | |
| wrap type | Y11 | MULTIFLEX_86 | 50 | CuAg | 0.47/.019 | PTFE | 1.48/.058 |
| tin soaked braid | Y12 | SUCOFORM_141 | 50 | CuStAg | 0.95/.037 | PTFE | 2.95/.116 |
| tin soaked braid | Y14 | SUCOFORM_250-01 | 50 | CuAg | 1.67/.066 | PTFE | 5.24/.206 |
| solid tube | Y15 | EZ_47 | 50 | CuStAg | 0.29/.011 | PTFE | 0.93/.037 |
| tin soaked braid | Y16 | SUCOFORM_86 | 50 | CuStAg | 0.53/.021 | PTFE | 1.65/.065 |
| wrap type | Y17 | MULTIFLEX_141 | 50 | CuAg | 0.92/.036 | PTFE | 2.93/.115 |
| solid tube | Y19 | EZ_34 | 50 | StCuAg | 0.20/.008 | PTFE | 0.66/.026 |

| Screen | | Jacket | | Cable retention force | Max. operating frequency range |
|----------|-------------|----------|-------------|-----------------------|--------------------------------|
| Material | Ø mm/inches | Material | Ø mm/inches | N/lbs. | |
| CuSn | 1.19/.047 | | | 26.1/5.87 | 40 GHz |
| Cu | 2.20/.086 | | | 158.5/35.6 | 40 GHz |
| Cu | 3.58/.141 | | | 309.1/69.5 | 33 GHz |
| Cu | 6.35/.250 | | | 952.4/212.7 | 18 GHz |
| CuAg | 2.11/.083 | FEP | 2.65/.104 | 160.0/36.0 | 40 GHz |
| CuSn | 3.58/.141 | | | 100.0/22.5 | 33 GHz |
| CuSn | 6.30/.248 | | | 100.0/22.5 | 18 GHz |
| Cu | 1.19/.047 | | | 41.8/9.3 | 107 GHz |
| CuSn | 2.20/.086 | | | 100.0/22.5 | 40 GHz |
| CuAg | 3.53/.139 | FEP | 4.14/.163 | 160.0/36.0 | 33 GHz |
| Cu | 0.86-.034 | | | 23.9/5.3 | 148 GHz |

Dimensions of Mounting Holes (ML)

| | | | |
|--------------|---------------|---------------|--------------|
| <p>ML 19</p> | <p>ML 20</p> | <p>ML 35</p> | <p>ML 41</p> |
| <p>ML 42</p> | <p>ML 93</p> | <p>ML 96</p> | <p>ML 96</p> |
| <p>ML 98</p> | <p>ML 132</p> | <p>ML 177</p> | |

FURTHER CATALOGUES



RF Coaxial Connectors

Item Nr. 644802



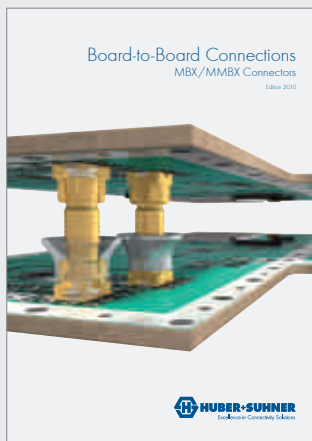
Microwave Cables and Assemblies

Item no. 23012500



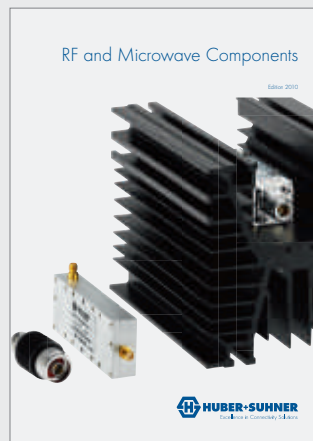
40 Gbps Multicoax Solution MXP

Item no. 84104394



Board-to-Board Connections MBX/MMBX Connectors

Item no. 84104321



RF and Microwave Components

Item no. 84068668



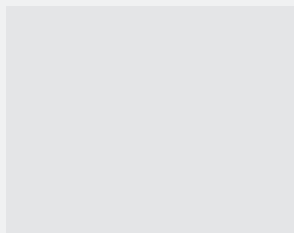
Test+Measurement Components

Item no. 84068138

HUBER+SUHNER is certified according to
ISO 9001, ISO 14001, ISO/TS 16949 and IRIS.

WAIVER

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