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Enabling Industrial IoT

# Low Loss (SLL200) Cable

N-TYPE-Female To SMA-Male

N-TYPE Female | SMA Male | SLL 200 | BLE Bluetooth | ZB Zigbee

Wi-Fi 5 / 6 / 7 | LoRa Wireless | 5G New Radio | 4G LTE | ISM DC to 6G

GNSS

## Key Features

- Connector 1: N-TYPE Female
- Connector 2: SMA Male
- Low Loss (SLL200) Coxial Cable
- Impedance: 50Ω
- Lengths: 3M / 4 M / 5M /10M / 20M
- Suggested Working Frequency: DC to 6GHz

## Typical Applications

- RF Patch Cable with N-TYPE(F) and SMA(M)
- Cellular Modules, Wi-Fi/Bluetooth Devices, Drones/Robotics, Medical Devices and Wearable Devices.

## Environmental Specifications

- Operating Temperature: -40 to +90 °C
- RoHS and REACH compliant

## Ordering Details:

| Part Number | Description |
|---|---|
| ASMN300A058L13 | N-TYPE(F) to SMA(M) 3 M Low Loss (SLL200) Cable Assembly |
| ASMN400A058L13 | N-TYPE(F) to SMA(M) 4 M Low Loss (SLL200) Cable Assembly |
| ASMN500A058L13 | N-TYPE(F) to SMA(M) 5 M Low Loss (SLL200) Cable Assembly |
| ASMN1000A058L13 | N-TYPE(F) to SMA(M) 10 M Low Loss (SLL200) Cable Assembly |
| ASMN1500A058L13 | N-TYPE(F) to SMA(M) 15 M Low Loss (SLL200) Cable Assembly |
| ASMN2000A058L13 | N-TYPE(F) to SMA(M) 20 M Low Loss (SLL200) Cable Assembly |

***Customisation Available**: We also offer customisation of cable lengths to meet your specific requirements. Whether you need a shorter or longer cable, we can tailor the solution to fit your exact needs - [siretta@sales.com](mailto:siretta@sales.com)*

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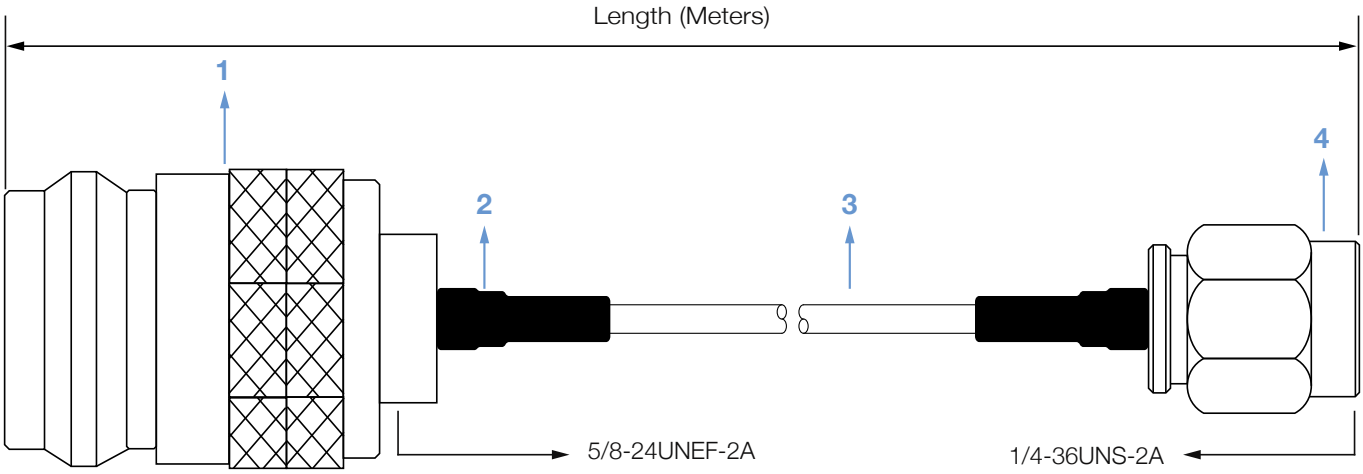
N-TYPE-Female To SMA-Male

## Dimensional Drawing




| No. | Description | Quantity |
|---|---|---|
| 1 | N-TYPE Female | 1 |
| 2 | Heat Shrink (Black) | 1 |
| 3 | SLL200 Coxial Cable | 1 |
| 4 | SMA Male | 1 |

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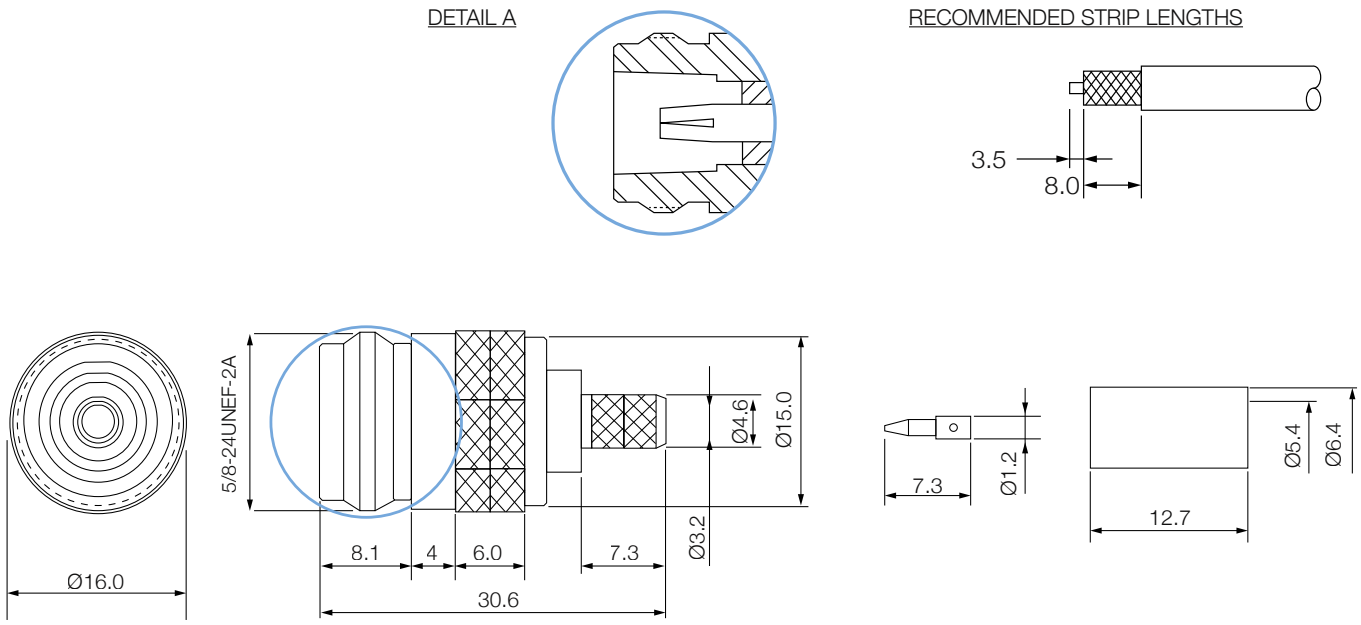
N-TYPE-Female To SMA-Male

## N-TYPE-Female Detailed Drawing




| No. | Description | Material | Finish | Quantity |
|---|---|---|---|---|
| 1 | Body | Brass | Nickel | 1 |
| | Insulator | Teflon | None | 1 |
| | Center Pin | P.Bronze | Gold | 1 |
| 2 | Pin | Brass | Gold | 1 |
| 3 | Ferrule | Brass | Nickel | 1 |

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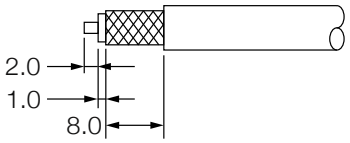
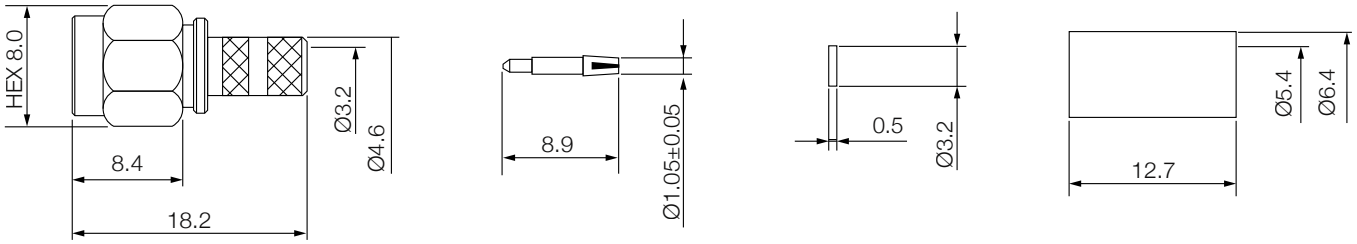
N-TYPE-Female To SMA-Male

## SMA-Male Detailed Drawing

RECOMMENDED STRIP LENGTHS




| No. | Description | Material | Finish | Quantity |
|---|---|---|---|---|
| 1 | Body | Brass | Nickel | 1 |
| 2 | Pin | Be.Cu | Gold | 1 |
| 3 | Insulator A | Teflon | None | 1 |
| 4 | Gasket | Silicone Rubber | None | 1 |
| 5 | Inner Retaining Ring | Be.Cu | None | 1 |
| 6 | Ferrule | Brass | Gold | 1 |
| 7 | Insulator B | Teflon | Nickel | 1 |

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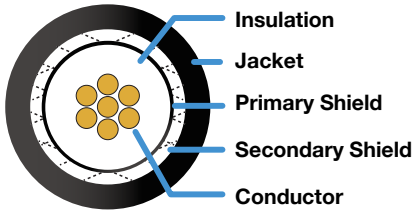
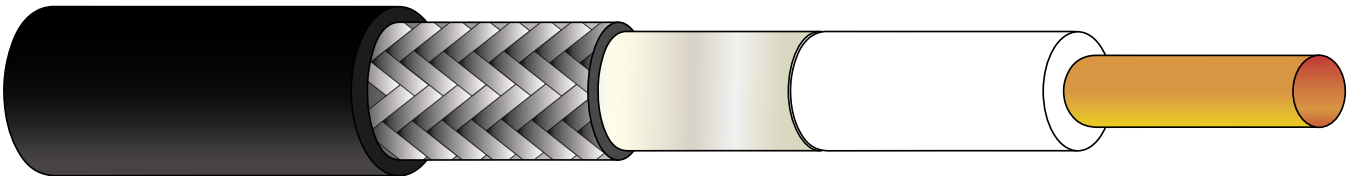
N-TYPE-Female To SMA-Male

## SLL200 Coaxial Cable Specification



| Jacket | Secondary Shield | Primary Shield | Insulation | Conductor |
|---|---|---|---|---|
| Material<br>PE | Material<br>Tinned copper wire braid | Material<br>Bonded Aluminium Foil | Material<br>FEP | Material<br>Bare copper |
| Colour<br>Black | Average Thickness<br>0.295 mm | Average Thickness<br>0.06 mm | Average Thickness<br>0.22 mm | Diameter<br>1.12 mm |
| Average Thickness<br>0.645 mm | Coverage<br>90% | | Colour<br>White | |
| Diameter<br>4.95 mm | Diameter<br>3.66 mm | Diameter<br>3.07 mm | Diameter<br>2.95 mm | |

## Electrical Specifications

| | |
|---|---|
| Impedance: | 50±3 Ω |
| Return Loss: | > 20 dB |
| Screening Effectiveness: | > 90 dB |
| Capacitance: | 80.3 pF/M |
| Velocity of Propagation | 80.3% |
| Spark Test: | 3 KV |
| Inner Conductor DCR: | 17.6Ω |
| Outer Shield DCR: | 16.1Ω |
| Voltage withstand: | 1 KV |

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## Physical Specifications

| | |
|---|---|
| Operating Temperature range: | -40°C ~ +85°C |
| Storage Temperature range: | -40°C ~ +85°C |

## Attenuation (across frequency)

| Frequency (MHz) | 30 | 50 | 150 | 450 | 900 | 1500 | 1800 | 2000 | 2500 | 5800 |
|---|---|---|---|---|---|---|---|---|---|---|
| dB/1m | 0.58 | 0.75 | 1.31 | 2.28 | 3.26 | 4.24 | 4.66 | 4.93 | 5.54 | 8.65 |
| dB/ft | 0.18 | 0.23 | 0.40 | 0.69 | 0.99 | 1.29 | 1.42 | 1.50 | 1.69 | 2.64 |