



SCM

Systèmes et Connectique du Mans

NGC CONNECTOR SERIES



4, 6, 12 & 28 POLES SIGNAL CONNECTOR

Technical Characteristics

Electrical

- Insulation Resistance : > 5000 M Ω
- Crimp Contact : 0.5 to 2.5 mm. (AWG20 to AWG13)
- Cable Capacities :
- EN 50264-2-1 & EN 50264-3-1 (type 0.6/1 kV) : up to 1.5 mm₂
- EN 50306-2 cat. M : 0.5 to 2.5 mm₂
- Grommet Capacity : \varnothing 1.15 to 2.85 mm
- Service Voltage :
- 220 V AC/DC according to NF F 61-030
- 500 V AC/DC according to EN 50124-1/A2 (OV3-PD2)
- Withstanding voltage :
- 2550 V according NF F 61-030
- 3500 V according to EN 50124-1/A2 (OV3-PD2)
- Nominal Current : up to 20 A
- According to NF F 61-030

Environmental

- Service Temperature : -40°C +100°C (-40°F +212°F)
- Salt Spray : > 250 hours
- Protection Index : IP 66 mated according to EN 60529
- Fluid Resistance : gas oil, mineral oil, acid, base and cutting fluid

Material

- Contact : Gold- or silver-plated brass
- Housing : Fiber glass reinforced polyamide
- Grommet and seal : Silicone
- Fire & Smoke :
EN 45545-2 : HL3 (R22 & R23)
Requirement 2 according to NF F 16-101 & NF F 16-102
UL94V0

Mechanical

- Durability : 500 mating cycles
- Vibration & Shocks resistance : EN 61373 (Category 1B)

Wiring Implementation Instructions

- See FT10029



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Arrangements & Part numbers



NGC4M



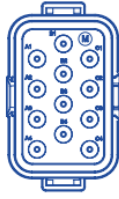
NGC4F



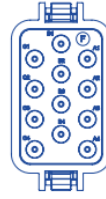
NGC6M



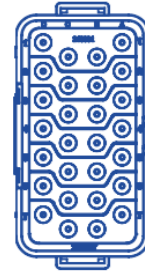
NGC6F



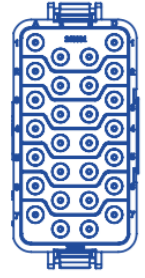
NGC12M



NGC12F



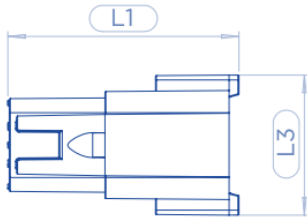
NGC28M



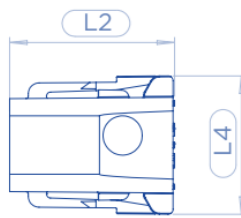
NGC28F

M : Male F : Female

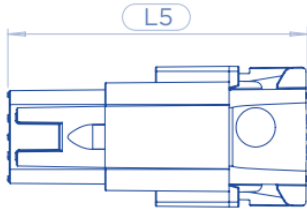
Dimensions



Male plug



Female plug

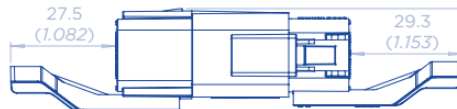
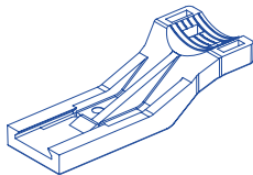


Mated connector

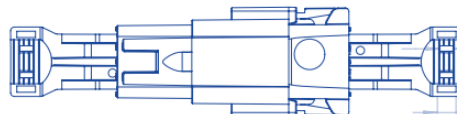


| Size | Dimensions (mm) | | | | | | Weight ($\pm 5\%$ g) (without contacts) | |
|------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|-------------|
| | L1 | L2 | L3 | L4 | L5 | L6 | Male receptacle | Female plug |
| 4 | | | 28.5 (1.122) | 28.2 (1.110) | 61 (2.407) | 23.7 (0.933) | 17 | 14,9 |
| 6 | 46.8 (1.842) | 33.3 (1.311) | 36.2 (1.425) | 35.9 (1.413) | | | 23 | 20,4 |
| 12 | | | 47.6 (1.874) | 47.3 (1.862) | | | 29.3 (1.153) | 38,5 |
| 28 | 49.8 (1.960) | 36.3 (1.429) | 70.4 (2.777) | 70.4 (2.777) | 66.5 (2.618) | 37 (1.456) | 84,4 | 82,7 |

Accessory : Strain Relief (mm/inch)



Size 4 & 6 :
27 (1.062)
Size 12 :
32.5 (1.279)
Size 28 :
39.2 (1.543)

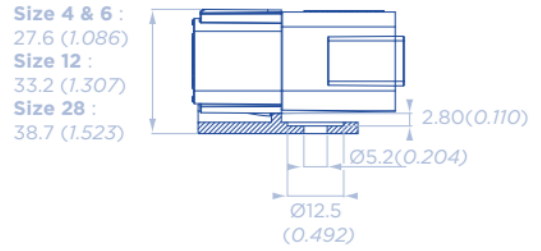
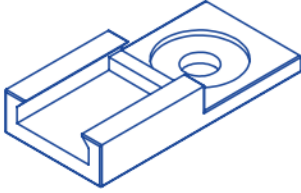


Part number : NGCASC / NGC28ASC (for size 28 only)

Cables tightening with a plastic collar

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Accessory for Male Plug only : (mm/inch)

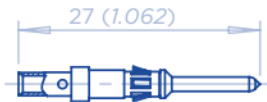


Maximum head height of the panel fastener (rivet or screw) : 2.6 mm

Part Number : NGCAFP

Contacts

Male Contact



Female Contact



| Caliber | Plating | Cable Size | Part Number MALE | Crimping Tool | Locator | Insertion Tool | Extraction Tool |
|---------|---------|--|------------------|--------------------------|------------|----------------|-----------------|
| Ø1.6 mm | Ag | 0.5 to 1.82 mm ² (AWG 20 to 15) | SRCS205589-A00 | OUT0405-0167AS0 (FT8) | OUTS208448 | OUT0405-0337AS | OUTEXT-0321 |
| | Au | | SRCS205589-A01 | | | | |
| | Ag | 1.34 to 2.61 mm ² (AWG 15 to 13) | SRCS209432-A00 | | | | |
| | Au | | SRCS209432-A01 | | | | |

| Caliber | Plating | Cable Size | Part Number FEMALE | Crimping Tool | Locator | Insertion Tool | Extraction Tool |
|---------|---------|--|--------------------|--------------------------|----------------------------|----------------|-----------------|
| Ø1.6 mm | Ag | 0.5 to 1.82 mm ² (AWG 20 to 15) | SRCS202416-A00 | OUT0405-0167AS0 (FT8) | OUT0405-0176AS (TP1012) | OUT0405-0337AS | OUTEXT-0321 |
| | Au | | SRCS202416-A01 | | | | |
| | Ag | 1.34 to 2.61 mm ² (AWG 15 to 13) | SRCS202420-A00 | | | | |
| | Au | | SRCS202420-A01 | | | | |

Ag : Silver plated - Au : Gold plated



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