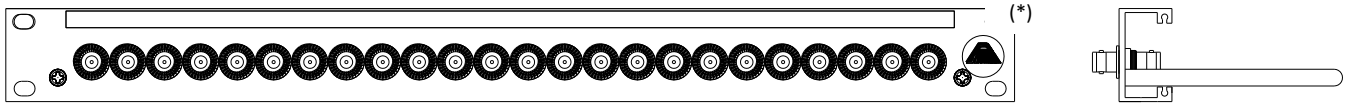
Tech Data

PATCH PANELS

BNC

BNC 3G-SDI



Description

- BNC - BNC 75 Ω Patch Panel.
- Front side of 2 rows and up to 26 BNC connectors in 2RU.
- Rear side of 2 rows and up to 26 BNC connectors in 2RU.
- According to 3G-SDI SMPTE 424M standard and earlier.
- Clock frequencies from DC to 3 GHz with return loss >10 dB.
- Insulated connector from chassis (Insulation: PTFE (Teflon)).

Applications

Video Patch Panel up to 26 BNC connectors for 3G-SDI signals and earlier.

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Physical Characteristics

BNC Connector

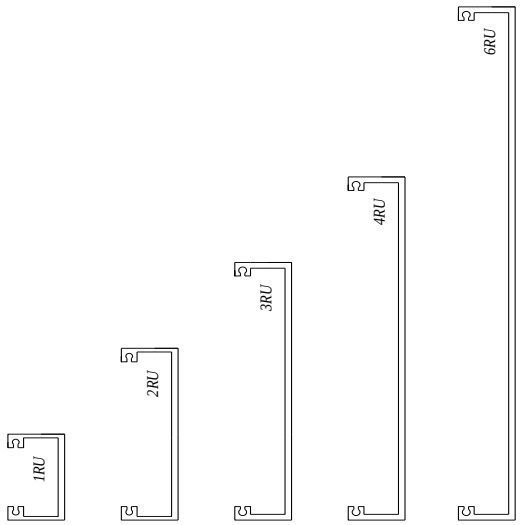
Body:
- Material:
  Zn (Zinc)/ Cu (Copper)
- Finish:
  Ni (Níquel)

Inner Conductor:
- Material:
  Cu (Copper)
- Finish:
  Au (Gold)

Insulation:
PTFE (Teflon)

Panel

Panel Frame:
- Extruded Aluminium.
- 6063 Alloy.
- T5 Treatment.
- Painted Finished:
  - Powder Electrostatic Covering 100-150 µ.
  - Colour: Textured Matte Black.



Label Profile:
- Extruded Aluminium.
- Painted Finished:
  - Powder Electrostatic Covering 100-150 µ.
  - Colour: Textured Matte Black.

Label:
- Polypropylene 100 µ.
- Colour: White.

Tie Cable Bar:
- Steel bar of F1 calibration and 8 mm.
- Painted Finished:
  - Powder Electrostatic Covering 100-150 µ.
  - Colour: Textured Matte Black.

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Mechanical Characteristics

BNC Connector

Installarion Temperature:
-5º a + 50º C
Working Temperature:
-40º a + 100ºC
Storage Temperature:
-40º a + 100ºC

Electrical Characteristics

BNC Connector

Frequency Response:
0.3 – 3.000 MHz
Impedance:
75 Ω.
Current:

- Measured:
  3.5 A @ 10 ºC
- Calculated:
  4.5 A @ 20 ºC

Transference Impedance:
n/a mΩ/m @ 5-30MHz
n/a mΩ/ítem @ 5-30MHz
Shielding Effectiveness (@30 -82 MHz):
65 Db
Internal Resistance of Connector (@ 1 A DC):
0.9 mΩ
Insulation Resistance (@500 V DC):
>200 GΩ
Dielectric Strength (Voltaje de Ensayo DC):
4 KV
Intermodulation (3º Orden (@ 2X0.5 W)):

- IM3:
  -152 dBc
- IP3:
  + 102 dBm

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Return Loss (IEC 61169-1) Analyzer RF HP 8714 C		
Frequency	Better than	Typical
0.3 – 500 MHz	-37 dB	-39.9 dB
500 – 860 MHz	-32 dB	-34.6 dB
860 – 1000 MHz	-30 dB	-33.3 dB
1000 – 1750 MHz	-27 dB	-30.0 dB
1750 – 2150 MHz	-26 dB	-28.8 dB
2150 – 3000 MHz	-25 dB	-27.7 dB

Max. Insertion Loss		
Frequency	Better than	Typical
0.3 – 500 MHz	-0.08 dB	-0.03 dB
500 – 860 MHz	-0.08 dB	-0.03 dB
860 – 1000 MHz	-0.08 dB	-0.03 dB
1000 – 1750 MHz	-0.10 dB	-0.05 dB
1750 – 2150 MHz	-0.11 dB	-0.06 dB
2150 – 3000 MHz	-0.17 dB	-0.12 dB

Normativa

- **SMPTE 424-2006** (and earlier): This Standard defines a bit-serial data structure for 3GB/s component digital signals or packetized data.
- **IEC 60169-8 amendment 2, Annex A**: This Standard defines a 75 Ω BNC connector which can use at frequencies >3.0 GHz and with a Return Loss > 10 dB in 3.0 GHz.
- All test are made with calibrated tools according to this certification: **ISO 9001 (ISO 9001:2000/ISO 14001).**

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