



## Technical Data Sheet

### CANFORD 12G MALE CABLE BNC CONNECTORS

**48-6025** CANFORD CONNECT CCBNCX BNC 12G, crimp, 75 ohm, Group X

**48-6026** CANFORD CONNECT CCBNCY BNC 12G, crimp, 75 ohm, Group Y

**48-6027** CANFORD CONNECT CCBNCQ BNC 12G, crimp, 75 ohm, Group Q

**48-6028** CANFORD CONNECT CCBNCB BNC 12G, crimp, 75 ohm, Belden 1855A, 4855R

#### DESCRIPTION

High-performance 4K UHD TV, 75 ohm crimp BNC's that have been specifically developed for Canford to meet the demands of the video professional. Rated to 500 mating cycles, these BNC's are suitable for video signals up to and including 12GHz.

#### CONNECTOR MATERIALS

Pin	Brass, gold plated
Body	Brass, nickel plated
Coupling Nut	Zinc alloy, nickel plated
Dielectric	PTFE, white
Ferrule	Brass, nickel plated

#### ASSEMBLY INSTRUCTIONS

Slide the Ferrule onto the cable and strip to the dimensions as shown on page 2 of this datasheet. Care should be taken not to cut through braid screen strands, or strands of stranded conductors, (where applicable).

Crimp the pin onto the centre conductor of the cable.

Slide the cable with crimped pin into the BNC body until it is firmly located. When sliding the cable into the body, ensure the foil screen, (where applicable), enters the bore of the mandril but the braid screen is spread over the outside of the mandril.

Slide the ferrule over the braid screen and mandril and crimp. Crimp sizes and tooling are given on page 2 of this datasheet.

#### TECHNICAL SPECIFICATION

##### Mechanical

Cable Retention	Equal to the breaking strain of the cable when appropriately terminated
Termination	Crimp
Mating Cycles	500

##### Electrical

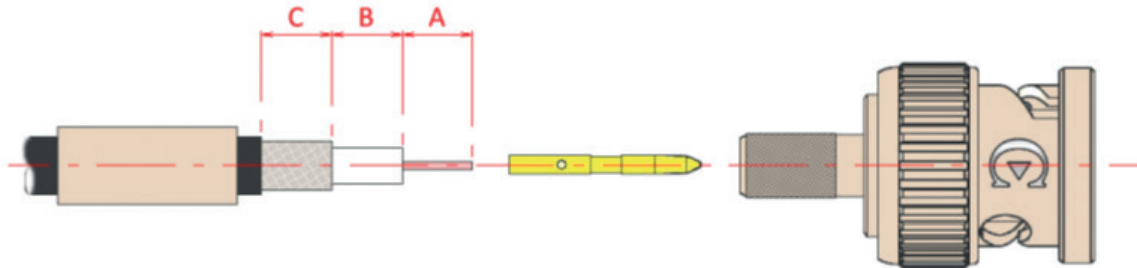
Interface Frequency	12GHz
Impedance	75Ω
Working Voltage	500V RMS max.
Dielectric Insulation	1500V RMS max.
Return Loss	See page 2 for individual connector performance

##### Environmental

RoHS	Compliant
Working Temperature Range	-65°C to +165°C



## CABLE PREPARATION AND CRIMPING



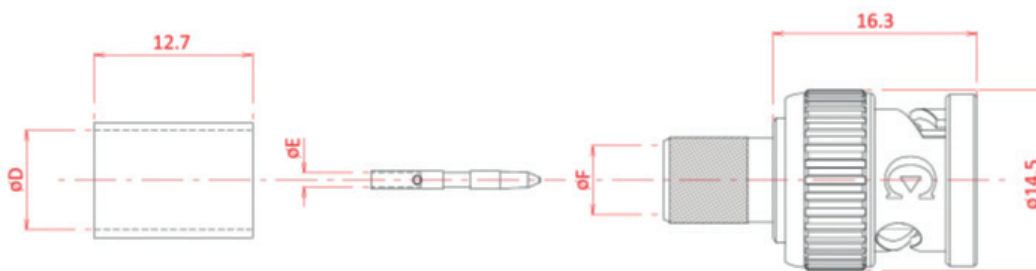
- A Conductor
- B Dielectric
- C Braid

All dimensions and cavities in mm

Connector	Cable Group	A	B	C	Pin	Ferrule	Crimp Tool	Alternative Tool
48-6025 CCBNCX BNC	X	4.8	2.5	8.8	1.07 SQ	5.41 HEX	55-8182	N/A
48-6026 CCBNCY BNC	Y	4.8	2.7	8.8	1.07 SQ	8.23 HEX	55-8182	N/A
48-6027 CCBNCQ BNC	Q	4.8	2.7	8.8	1.07 SQ	6.48 HEX	55-8187	55-752 WITH 55-769
48-6028 CCBNCB BNC	1855A/4855R	4.8	2.5	8.8	1.07 SQ	4.52 HEX	55-8187	55-752 WITH 55-769

Suitable cable stripper 55-640 PALADIN 1282 CST-Pro coaxial cable stripper (with black cassette)

## DIMENSIONS AND RETURN LOSS



- D Ferrule Bore
- E Pin Bore
- F Mandril Bore

All dimensions in mm

Connector	Cable Group	D	E	F	Return Loss			
					3GHZ	6GHZ	9GHZ	12GHZ
48-6025 CCBNCX BNC	X	5.50	0.72	3.22	-30.0 DB	-22.5 DB	-18.9 DB	-17.1 DB
48-6026 CCBNCY BNC	Y	8.00	1.10	5.30	-27.9 DB	-29.7 DB	-28.5 DB	-33.8 DB
48-6027 CCBNCQ BNC	Q	6.60	0.90	4.00	-38.8 DB	-32.3 DB	-29.8 DB	-21.5 DB
48-6028 CCBNCB BNC	1855A/4855R	4.60	0.72	2.80	-27.3 DB	-21.8 DB	-19.9 DB	-16.2 DB

SMPTE ST2082-1 requires a minimum return loss of -4dB for 12G, -7dB for 6G and -10dB for 3G signals