

### Telecom Baluns

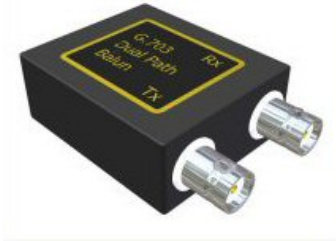
Baluns allow two dissimilar cable types to be joined together with the minimum of electrical degradation. Cambridge Connectors' Telecom Baluns are designed to meet or exceed ITU-TSS G.703 specifications. The Dual path configuration of the Balun allows both the Tx and Rx Coax signal to be carried over twisted pair cabling. Standard co-axial connector types are BNC, BT43 or 1.6/5.6 interfaced to shielded RJ45.

### New Dual Path Telecom Baluns - RoHS Compliant

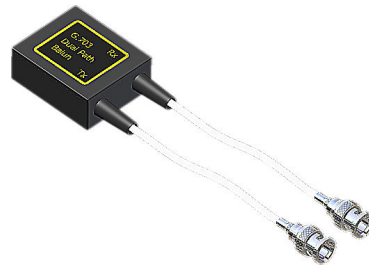
This new range of RoHS compliant dual path telecom baluns is engineered to combine the reliability and quality of Cambridge Connectors' balun technology with the styling and strength of a new fully RoHS compliant enclosure. Each balun operates in E1 (2Mbps); E2 (8Mbps) and E3 (34 Mbps) applications; there is no necessity to buy separate units for different speeds. Competitively priced, these G.703 baluns are available now from Cambridge Connectors.

### Features

- Operate over the range 64 Kbps to 34 Mbps
- Fully RoHS Compliant
- Manufactured in the UK for immediate delivery
- 100% tested for reliability and endurance
- Tough flame retardant housing suitable for harsh environments
- BNC, BT type 43 and 1.6/5.6 connector styles



BNC Female 75 ohm to 120 ohm twisted pair RJ45  
Part Number: **NBTAOHB-1245-075120**



BNC Male 75 ohm to 120 ohm twisted pair RJ45  
Part Number: **NBTPCHB-1245-075120**



Type 43 Male 75 ohm to 120 ohm twisted pair RJ45  
Part Number: **NBTPAHB-1245-075120**



1.6/5.6 Female 75 ohm to 120 ohm twisted pair RJ45  
Part Number: **NBTPBHB-1245-075120**

## G.703 Dual Path Faceplate Balun

- Standard UK Faceplate
- Reduced Cabling costs
- Shallow Faceplate Design
- Easily installed
- BNC Type 43: 1.6/5.6 Co-axial interface
- RJ45 twisted pair interface



Designed to meet G.703 specification Cambridge Connectors faceplate Baluns allow unbalanced co-axial 75 ohm equipment to connect easily to the Telecom Industry Standard of 120 ohm twisted pair cable. Conversion to twisted pair enables considerable savings to be achieved due to the low cost of twisted pair cabling.

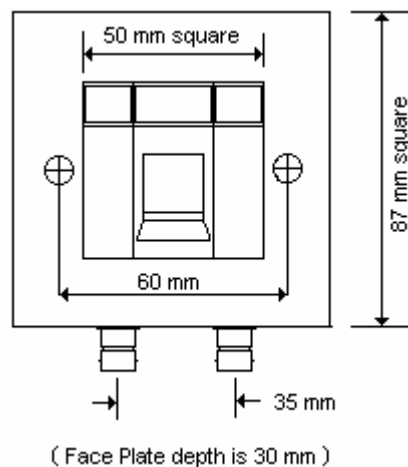
In addition, costs are reduced due to the ease of installation of the shallow wall mount faceplate which provides a neat and unobtrusive connection point

Part Number	Description
NBTDANB-1245-075120	G.703 Faceplate balun, RJ45(f) to 2 x BNC (f)
NBTDDNB-1245-075120	G.703 Faceplate balun with loopback, RJ45(f) to 2 x BNC(f)
NBTDENB-1245-075120	G.702 Faceplate balun with loopback, RJ45(f) to 2 x BT43(m)

Loop-back feature now available; actuation of a latching button closes the carrier's loop. In the event of equipment failure this feature enables the service provider to identify whether the fault is with the end-user equipment or with the carrier's line. Contact Sales office for further information:-

**NEW**

Specification:	
Impedance Tolerance	75±10 ; 120±12 ohms
Insertion Loss	<0.9 dB at 0.2 MHz to 70 MHz
Cross Talk	>60 dB at 1 MHz to 70 MHz
Return Loss	>15 dB at 1 MHz to 70 MHz
Insertion Cycle (coaxial)	500



## HDC-DDF G.703 Balun Dual Path G.703 Balun for High Density DDF Applications

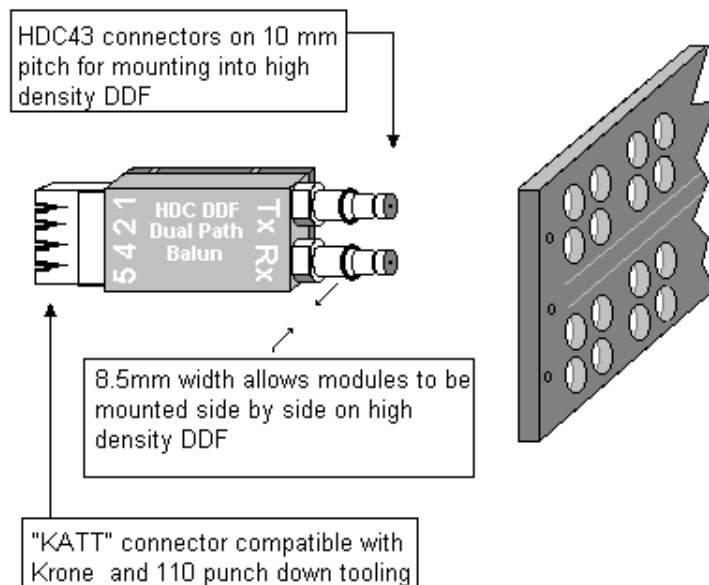
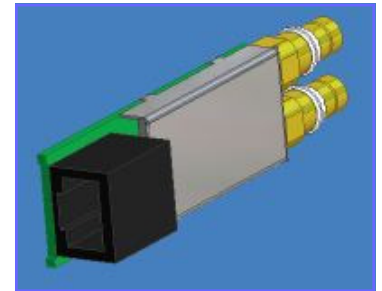
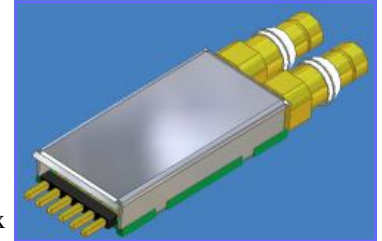
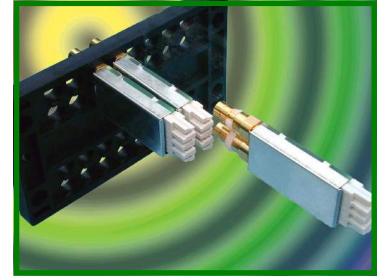
### Features:

- Miniature size 8.5 x 19.4mm
- Mounts straight into High Density DDF Block
- HDC43 connectors on 10mm pitch
- KATT ® IDC, Twisted Pair wirewrap or RJ45 termination
- Exceeds CCITT G.703 requirements
- 100% tested for reliability and endurance

### Intellectual property and design right protected

Cambridge Connectors has introduced this miniature Dual path G.703 Balun for mounting straight into high density DDF panels which are extensively used in telecom networks. Telecom Baluns provide the interface between unbalanced 75 ohm coaxial cabling systems and balanced 120 ohm twisted pair wiring.

This new dual path balun features two HDC43 coaxial connectors set on a 10mm pitch (the standard used on high density DDF blocks) and a KATT ® IDC block which can be used with both Krone ® and 110 punch-down tooling. With compact dimensions of 8.5mm high x 19.4mm wide these modules fit next to each other easily within the 10mm matrix of high density DDF blocks. Manufactured to exceed CCITT G.703 requirements each balun is 100% tested to meet the demands of telecom carriers, OEMs, system integrators, installers and project managers seeking the highest standards of endurance and reliability in a small DDF mountable package.



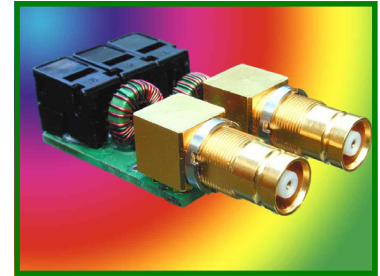
Part Number	Description
NBTFANB-1245-075120	High density DDF Dual Path G.703 Balun with IDC termination
NBTFENB-1245-075120	High density DDF Dual Path G.703 Balun with wirewrap termination
TLG-104	DDF Dual path Balun extraction tool



## 1.6/5.6 DDF G.703 Balun Dual Path G.703 Balun on 15mm pitch for DDF Applications

### Features:

- Mounts straight onto DDF block
- 1.6/5.6 coaxial connectors on 15mm pitch
- Tool-less IDC Twisted Pair termination
- Exceeds CCITT G.703 requirements
- 100% tested for reliability and endurance



Cambridge Connectors has developed this Dual Path G.703 Balun for mounting straight into DDF panels designed on a 15mm pitch for use with 1.6/5.6 connectors commonly used in European telecom networks. The dual path balun provides the interface between unbalanced 75 ohm coaxial cabling systems and balanced 120 ohm twisted pair wiring.

It features two 1.6/5.6 coaxial bulkhead sockets set on a 15mm pitch and a tool-less IDC connector for twisted pair wires. The snap-click IDC system provides a fast, simple method of termination; no special tooling is required and, if necessary, the wires can be removed and re-terminated at any time. Manufactured to exceed CCITT G.703 requirements, each balun is 100% tested to meet the demands of telecom carriers, OEMs, system integrators, installers and project managers seeking the highest standards of endurance and reliability in a small DDF mountable package.

The modules fit alongside each other within the 15mm matrix and can be vertically or horizontally orientated.

Part Number	Description
NBTFDNB-1234-075120	2 x 1.6/5.6 female to tool-less IDC