



3M™ High Density Block BRCP-HD

High Density Terminal Block for xDSL and NGN Equipment Interconnection

The 3M™ High Density Block BRCP-HD is specifically designed for xDSL/ Broadband and NGN deployment in the central office and remote sites for DSLAM, BBDLC and MSAN interconnection with the main distribution frame (MDF) or cross-connect field.

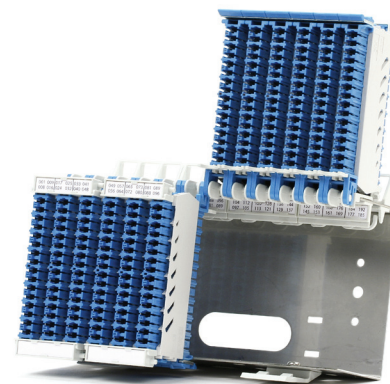
Everyone involved in network installation and maintenance, i.e., equipment vendors, installation contractors and service providers alike, benefits from the rapid installation and superior density afforded by the innovative design.

And then there is performance. The deep deployment of ADSL2+ and VDSL2 (and beyond) by broadband service providers brings high-speed performance requirements to the forefront. The BRCP-HD is designed to meet the demand for blocks that match the broadband requirements of current xDSL/broadband line deployments and NGN migration.

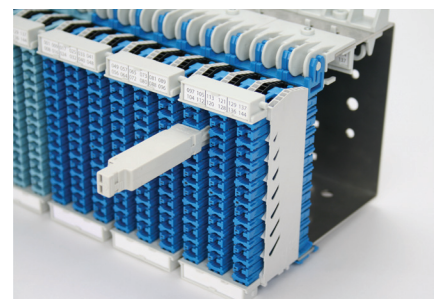
Optimizing the Space at the MDF and the Cross-Connect Field

The inherent high density of the BRCP-HD block makes it the ideal solution for applications with space constraints such as RSUs, CEVs, shelters, active cabinets and telecom closets in residential or corporate buildings.

The High Density BRCP-HD block can also accommodate front over-voltage protection while preserving the density provided by the block.



3M™ High Density Block BRCP-HD - 192 Pair

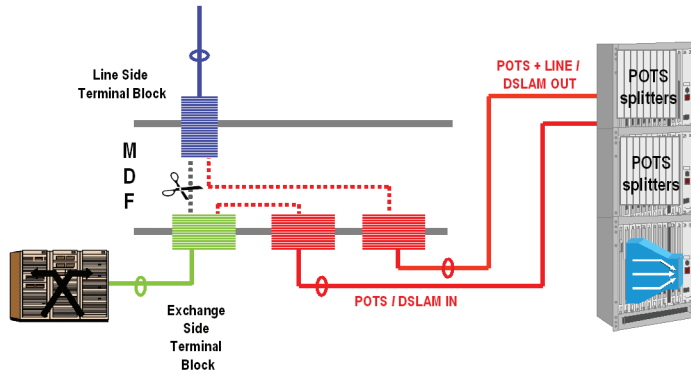


3M™ High Density Block BRCP-HD with front OV Protection

Designed for xDSL/Broadband Deployment and NGN Migration

The BRCP-HD block is available in pair counts that match the typical equipment line card configurations on the market. The block is made up of 16-pair modules allowing for great flexibility in specific application configurations.

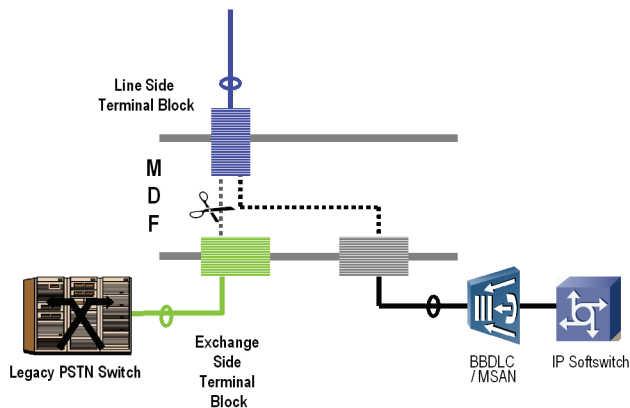
The BRCP-HD block features a swiveling front and rear-side block providing a clear demarcation of two termination areas, one at the rear for the equipment vendor installation team (direct termination of equipment cables), the other at the front for the service provider team to jumper its subscribers.



Two-block Configuration for DSLAM Application

Each block is dedicated to one type of signal: POTS + LINE and POTS.

One-block configuration is also possible.



One-block Configuration for NGN application

Rear side for equipment termination.

Front side for jumpering.

3M™ High Density Block BRCP-HD

Features	Benefits
Rear and front facing direct IDC or wire-wrap terminals	Direct IDC is designed to help reduce installation costs versus costly connectorized blocks. Adapted to service providers using wire wrap connection technique
Separated termination areas for NGN equipment or DSLAM “round trip” cables (POTS and LINE, at the rear) and subscriber jumpers (at the front)	Designed to provide a physical / legal demarcation between two different installations (OEM) and service (Service Provider) teams
Different terminal block pair counts available ranging from 128 to 256 pairs	Allows for a perfect match with most equipment line card configurations in the market. Designed to help reduce installation costs in avoiding costly and time consuming cable splits
High density of individual 16-pair modules	Designed to save more than 50% MDF space in comparison with common terminal blocks in the market
Wire guide channels	Provides for professional and efficient wiring management. Helps retain wire twist up to the base of the IDC terminal (required for higher frequency applications)
Able to have OVP installed	Provides for provision of over-voltage protection to equipment cards while preserving the density

Specifications

Mechanical			
Dimensions: (Height/Width/Depth)	Height/Length	Width	Depth
128-pair block	120 mm / 4.72”	128 mm / 5.04”	119 mm / 4.68”
144-pair block	135 mm / 5.31”	128 mm / 5.04”	119 mm / 4.68”
192-pair block	180 mm / 7.08”	128 mm / 5.04”	119 mm / 4.68”
256-pair block	240 mm / 9.45”	128 mm / 5.04”	119 mm / 4.68”
288-pair block	270 mm / 10.63”	128 mm / 5.04”	119 mm / 4.68”
Wire range IDC contacts – solid copper conductor	0.4 mm to 0.8 mm 26 AWG to 20 AWG T-connection / double jumpering possible with different wire gauges		
Wire re-terminations:	250 re-terminations of 24 AWG per Telcordia TR-NWT-001195		
Transmission			
Insertion loss	< 0.01 dB to 2.2 MHz < 0.02 dB to 12 MHz < 0.04 dB to 30 MHz		
Return loss	> 49 dB to 2.2 MHz > 36 dB to 12 MHz > 29 dB to 30 MHz		
Crosstalk	> 70 dB to 2.2 MHz > 55 dB to 12 MHz > 47 dB to 30 MHz		
Electrical			
Insulation resistance	> 1x10 ¹⁰ Ω		
Contact resistance	< 10 m Ω		
Dielectric strength	3000 V rms, 60 Hz AC		
High voltage surge	3000 V DC surge		

3M™ High Density Block BRCP-HD Specifications

Environmental

Telcordia TR-NWT-001195 – 3rd party tested	“Generic requirements for Insulation Displacement Connector (IDC) cross-connect terminal blocks”
Operating temperature range	-10°C to 60°C
Storage temperature range	-40°C to 90°C
Flammability rating	UL 94 V-0 materials used
RoHS: Compliant with EU RoHS Directive (2002/95/EC)*	

Materials

Plastics	Thermoplastic
Contacts	Bronze, tin (Sn) plating

Ordering Information

Model Number	Description	3M ID	Minimum Order
C242825A	BRCP-HD 128 pair block IDC front/IDC rear	FQ100029252	1
C242765A	BRCP-HD 144 pair block IDC front/IDC rear	FQ100028924	1
C242684A	BRCP-HD 192 pair block IDC front/IDC rear	FQ100026811	1
C242695A	BRCP-HD 256 pair block IDC front/IDC rear	FQ100026886	1
C242890A	BRCP-HD 144 pair block IDC front/IDC rear - for protection	FQ100031605	1
C242828A	BRCP-HD 288 pair block IDC front/IDC rear - for protection	FQ100029567	1
C242764A	BRCP-HD 192 pair blockWW front/IDC rear	upon request	1
C242763A	BRCP-HD 256 pair blockWW front/IDC rear	upon request	1
C242739A	BRCP-SP test probe for BRCP-SP IDC version	FQ100027728	10
C222014B	STG / BRCP-SP WW 4-wire serial test cord	FQ100026845	5
C234030A	SOR OC termination tool - 3M IDC	FQ100024824	10
C233998A	BRCP-SP double protector 230V with fail-safe - grey	IA340501534	100

*“RoHS Compliant 2002/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

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