



RIS-DPC VHF IS POWER COUPLER

- Intrinsically Safe MSHA Certified
- Used to Insert DC Voltage onto the Leaky Feeder system
- Low Main Line Loss
- Does Not Affect Amplifier Spacing
- 0-12 Vdc Input Range
- DC Blocking and Termination via Jumper

FEATURES

Becker Mining Systems' smartcom® 150IS Power Couplers provide an interface between the Leaky Feeder network and system Power Supplies.

These devices introduce negligible loss to the Leaky Feeder network and therefore do not affect amplifier spacing.

The Main Line and DC In/Spur branches have jumpers to select:

Terminate: 75 Ω Termination

No DC: Blocks DC to/from branch

Normal: Passes RF and DC.

The layout rules for smartcom® 150IS systems can be found in the latest version of drawing MSHA-IS-01.

TECHNICAL DATA

PERFORMANCE SPECIFICATIONS	
75 Ω Termination	Jumper Select on MAIN LINE BR and DC IN/SPUR BR
Input/Output Impedance	75 Ω
Frequency Range	10-200 MHz
RF Loss	MAIN LINE BR: 1.5 dB, DC IN /SPUR BR: 22 dB
Input Voltage Range	0-12 Vdc
Current Consumption	0 mA
DC Blocking	Jumper Select on MAIN LINE BR and DC IN/SPUR BR

MECHANICAL DATA	
Enclosure	Fiberglass reinforced polyester plastic
Dimensions (L x H x W)	230 x 91 x 160 mm (9.1 x 3.6 x 6.3 in)
Conformal Coating	2 coats, CTI > 100
Weight (nominal)	1.6 kg (3.53 lbs)
Connectors	3 Three terminal Lug Connectors, PG21 Cable Grips

ENVIRONMENTAL DATA	
Temperature Range	-20 to +60° C (-4 to +140° F)
Protection Class	NEMA 4x (IP66)

APPROVALS	
MSHA	#23-A050001-0

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

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