Exir Broadcasting

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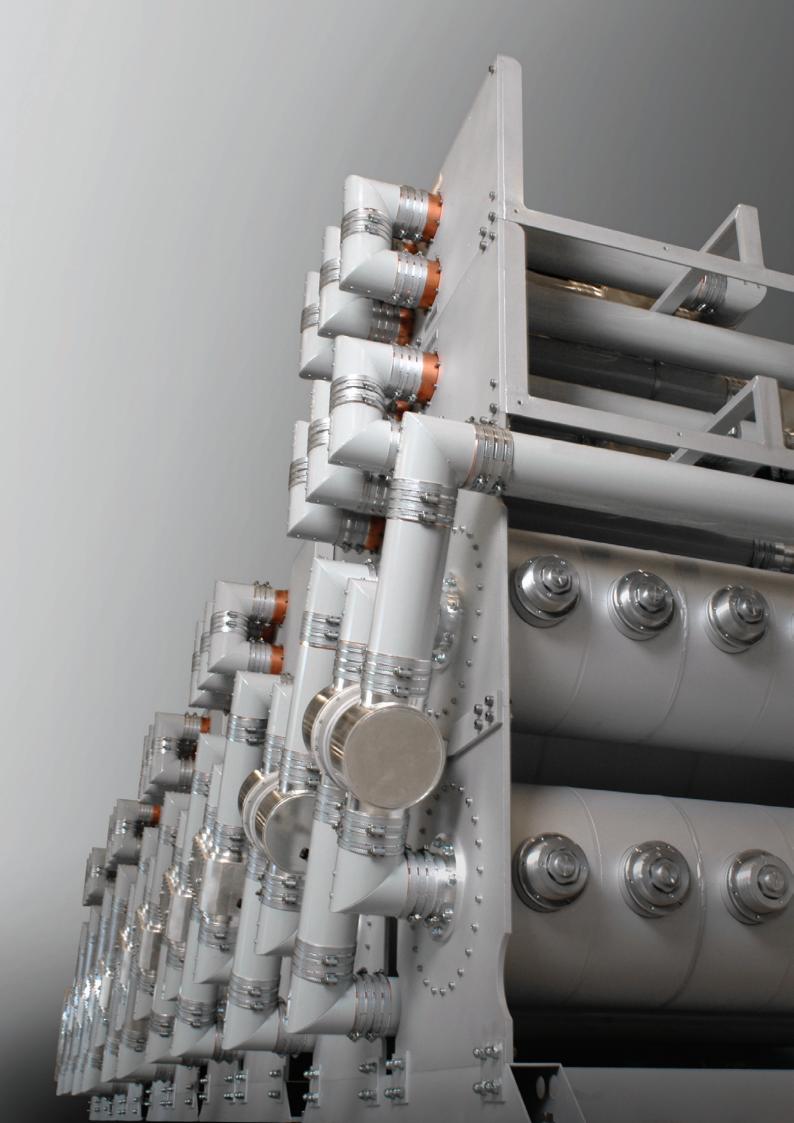


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For actual specifications please contact Exir Broadcasting for more information.

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TYPICAL VALUES

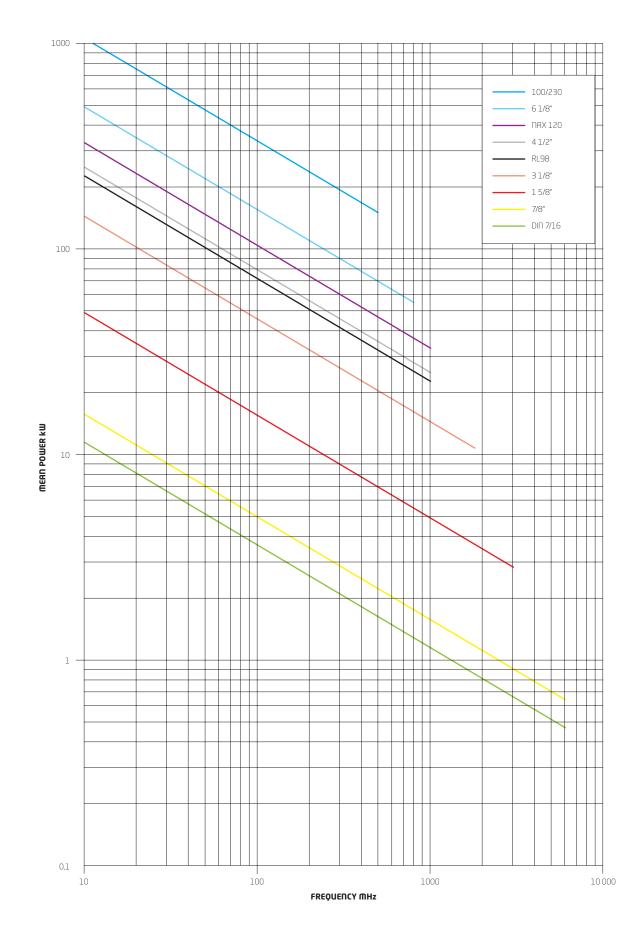
The specifications herein represent typical values unless otherwise indicated. Please contact Exir Broadcasting for more information.

SPECIAL REQUIREMENTS AND SOLUTIONS

This catalogue encompasses a large selection of standard broadcasting products from Exir Broadcasting. Many situations, however, call for special system configurations due to the singular demands of specific broadcasting applications.

At Exir Broadcasting our knowledgeable staff is accustomed to helping customers find the best possible solutions to meet their particular needs, no matter what the situation may be. So please do not hesitate to contact us to discuss any special requirements you may have.

Power Rating Data based on: Ambient T=40°C , Inner T=120°C



Order and Sales Information

Rigid Line Vital to Overall Performance

The importance of transmission line quality is easily overlooked when planning a broadcasting site. Yet the installation's rigid transmission line can significantly affect the system's overall performance and expansion capabilities.

The benefits of using high quality rigid line instead of cable or other systems are quite measurable, both in terms of performance and cost of installation and maintenance. At Exir Broadcasting we pride ourselves on being able to deliver a complete range of transmission line products offering extremely low loss for total system quality.

DOES TRANSMISSION LINE QUALITY REALLY MATTER?

Transmission line quality is as vital to a system's overall performance as is the quality of more critical components like transmitters and combiners. Every component in a system affects the electrical performance and output power of the transmission.

WHY RIGID LINE WHEN THERE IS CABLE?

Cables with dimensions greater than 7/8" are very bulky and heavy, and are also more expensive and more difficult to install than rigid line. In addition, the cable must be overdimensioned in order to compensate for its comparatively high attenuation.

WHAT'S SO UNIQUE ABOUT RIGID LINE FROM EXIR BROADCASTING?

First, we offer a complete program of interconnecting rigid line components to ensure easy assembly and consistently high quality from start to finish. Secondly, our adapters perform so well that they can be used as test adapters. Most importantly, our rigid line is manufactured using the purest copper available in order to achieve the lowest loss.

99.9% PURE COPPER

During transmission all power is concentrated to the coax line's inner conductor. For this reason, we use only the purest material available for our inner conductors consisting of 99.9% pure copper. This is how we are able to minimize loss.





All other key rigid line components are similarly designed to contribute to a low-loss system. For example, the inner conductor used in our elbows is milled from a single piece to achieve a return loss that is not only very good, but very consistent as well. Likewise, the exceptional isolation properties of our high quality adapters are kept consistent by using only virgin, high grade Teflon manufactured under strict controls.

KEEPING IT SIMPLE

One of the main features of Exir Broadcasting rigid line is its unique simplicity. The entire system is of a modular design according to the Lego-principle, meaning that all components can be assembled quickly, easily and reliably. Rigid line sections are easily adapted to the unique layout and characteristics of a station, and a wide variety of adapters even allows for varying rigid line dimensions within the same system.

Installing cable is much more cumbersome and time-consuming, and every splice means another possible source of trouble. Rigid line components, on the other hand, are connected safely and quickly using innovative coupling kits. These kits are available for both flanged rigid line for outdoor use, and unflanged rigid line for indoor use. They require neither welding nor threading, and completely eliminate the need for pins.

GOOD CONTACT THROUGH-OUT ENTIRE LIFETIME

Designing rigid line products that are easy to assemble and provide good contact throughout their entire lifetime is no easy task. Any small gap in the contact between components reduces conductivity, which may lead to increased temperature and a greater risk of interruption. At Exir Broadcasting we never use contact springs in transmission line components. Instead, our coupling kit solution with an inner bullet designed like a plug offers a durable alternative that will not wear out and at the same time eliminates the risk of installation flaws.

ACHIEVING DESIRED SYSTEM PERFORMANCE

The return loss value for each component in a coax system is of importance to the cost of installation and tuning. Every rigid line component from Exir Broadcasting has a guaranteed value of -32 dB or better.

Elbows are even more impressive with a typical return loss of -45 dB up to 860 MHz. And their consistent performance means sections of the line can be rebuilt without having to re-tune the entire system. are good enough. The total return loss during broadband measurement of the system will always be greater than the value for each individual component.

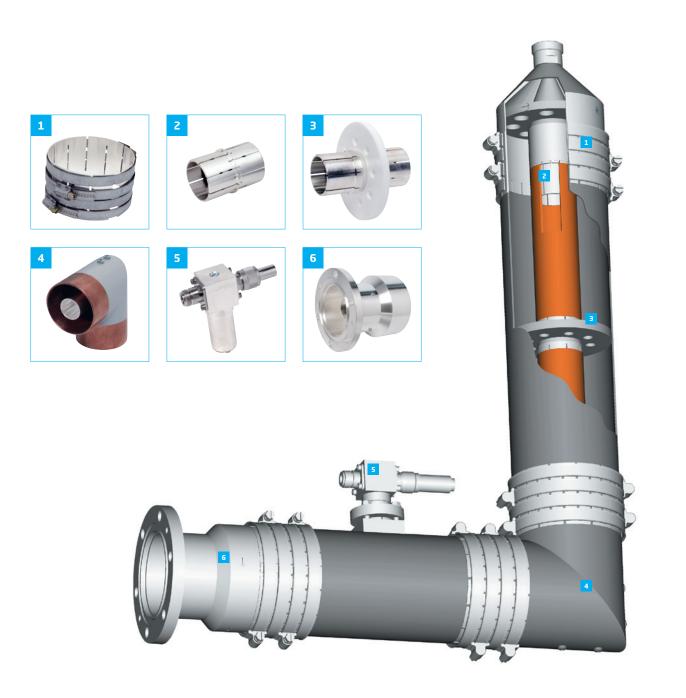
The important thing to remember is that building complete systems to meet specifications is really not that difficult when using components that have excellent values to begin with.

TAKING RIGID LINE TO A HIGHER LEVEL

In the final analysis, careful planning and the use of high quality components are the only means for achieving long-term

For multi-channel systems, only highest quality components security and quality for transmission line installations. These are the decisive factors that determine overall electrical performance of the complete system.

> Rigid line from Exir Broadcasting takes your rigid line installation to a higher level. With the reliability and innovation our customers have come to expect, the simplicity of our system makes transmission line installation easier, faster and safer than both cable and other systems, not only initially but also upon future modifications of the system.



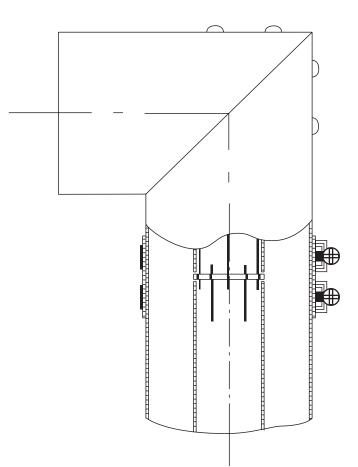
Order and Sales Information

Mounting Description

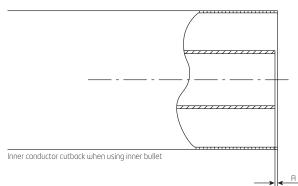
INDOOR FITTING

All indoor rigid lines are connected together using a coupling kit. The kit consists of an inner bullet, an outer sleeve and 2 or 4 tube clamps (depending on format). All rigid line components are built with the inner conductor 1.5mm shorter than the outer conductor (except RL 230, 2 mm). If the rigid line exceeds a certain length, an inner support must be used. These lengths depend on the format of the rigid line. These relationships are shown in the table below.

FORMAT	MAXIMUM LENGTH	
	WITHOUT INNER SUPPORT	
7/8″	1000 mm	
EIA 1 5/8"	1400 mm	
EIA 3 1/8"	2000 mm	
RL 98	2500 mm	
EIA 4 1/2	2500 mm	
NAX 120	2500 mm	
EIA 6 1/8"	3000 mm	
RL 230	2515 mm	

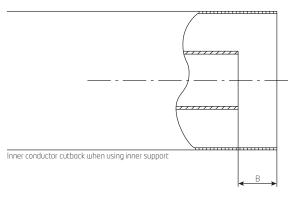


CUT-BACK DIMENSIONS FOR RIGID LINE A. WITH INNER BULLET



FORMAT	CUTBACK "A"
7/8″	1.5 mm
EIA 1 5/8"	1.5 mm
EIA 3 1/8"	1.5 mm
RL 98	1.5 mm
EIA 4 1/2	1.5 mm
NAX 120	1.5 mm
EIA 6 1/8"	1.5 mm
RL 230	2.0 mm

B. WITH INNER SUPPORT



FORMAT	CUTBACK "B"
7/8″	12.7 mm
EIA 1 5/8"	15.0 mm
EIA 3 1/8"	23.2 mm
RL 98	17.0 mm
EIA 4 1/2	24.5 mm
NAX 120	17.0 mm
EIA 6 1/8"	32.0 mm
RL 230	71.0 mm

Rigid Line - Tubes

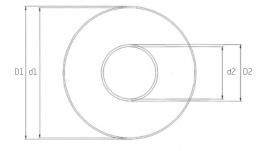


PRODUCT PROFILE

d2

Exir Broadcasting supplies rigid lines of different types. Lowloss copper and various aluminium alloys are used to ensure high conductivity. The tubes are connected with silver-plated brass sleeves that are tightened with tube clamps. The inner conductors are connected with silver-plated brass bullets.

The maximum production length of a tube is approximately 5 metres (16.4 ft). If the maximum length is used, then the inner conductor must be supported by inner supports. All dimensions can be ordered with connecting flanges for outdoor use. More detailed information is available on request.



43 mm (1.69 in)





ARTICLE

015-0900

015-1000

015-1050

015-1075

015-1100

015-1095

64.1 mm (2.52 in)

CLAMPS

EIA 7/8"

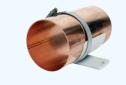
RL 98

EIA 1 5/8" EIA 3 1/8"

EIA 4 1/2"

NAX 120

TYPE OF LINE



WALL HANGERS			
TYPE OF LINE	ARTICLE		
EIA 7/8″	1100555		
EIA 1 5/8"	R158-FAST-A1		
EIA 3 1/8"	R318-FAST-A1		
RL 98	RL98-FAST-A1		
NAX 120	R120-FAST-A2		
EIA 6 1/8"	R618-FAST-A1		

98 mm (3.86 in)

ARTICLE	211-008006 INNER	211-016009 INNER	211-033010 INNER	211-042015 INNER
	211-022011 OUTER	211-041012 OUTER	211-079012 OUTER	211-100010 OUTER
TYPE OF LINE	EIA 7/8"	EIA 1 5/8"	EIA 3 1/8"	RL98
MATERIAL INNER	Low-loss copper	Low-loss copper	Low-loss copper	Low-loss copper
MATERIAL OUTER	Copper	Copper	Copper	Low-loss copper
IMPEDANCE	50 Ohm	50 Ohm	50 Ohm	50 Ohm
D1	22.23 mm (0.88 in)	41.28 mm (1.64 in)	79.38 mm (3.12 in)	100 mm (3.94 in)
d1	19.95 mm (0.79 in)	38.79 mm (1.52 in)	76.88 mm (3.03 in)	98 mm (3.86 in)
D2	8.66 mm (0.34 in)	16.87 mm (0.66 in)	33.4 mm (1.31 in)	42.55 mm (1.67 in)
d2	7.39 mm (0.29 in)	14.93 mm (0.58 in)	31.27 mm (1.23 in)	39.50 mm (1.55 in)
ARTICLE	211-044010 INNER	211-052010 INNER	211-660010 INNER	211-100010 INNER
	211-106015 OUTER	219-125025 OUTER	211-155018 OUTER	219-235025 OUTER
TYPE OF LINE	EIA 4 1/2"	Nax 120	EIA 6 1/8″	RL230 (EIA 230/100)
MATERIAL INNER	Low-loss copper	Low-loss copper	Low-loss copper	Low-loss copper
MATERIAL OUTER	Copper	Aluminium	Copper	Aluminium
IMPEDANCE	50 Ohm	50 Ohm	50 Ohm	50 Ohm
D1	106 mm (4.17 in)	125 mm (4.92 in)	155.6 mm (6.13 in)	235 mm (9.26 in)
d1	103 mm (4.06 in)	120 mm (4.72 in)	151.92 (5.98 in)	230 mm (9.06 in)
D2	44,73 mm (1.76 in)	52.1 mm (2.05 in)	66 mm (2.6 in)	100 mm (3.94 in)

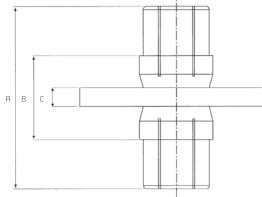
50.1 mm (1.97 in)

Inner Supports



PRODUCT PROFILE

Exir Broadcastings manufactures inner supports for all our rigid lines. The supports are designed to maintain excellent connectivity in rigid line and flanged connections. Silver-plated brass is used for the inner conductor. The ends are slotted and a circlip ensures excellent contact. All the support plates are made of high quality teflon (PTFE) that has been controlled and adjusted before manufacturing.





LINE TYPE	ARTICLE	Dim. A	Dim. B	Dim. C
EIA 7/8″ unflanged	R078-ISUP-AA00	49,0 mm (1,93 in)	23,8 mm (0,94 in)	5,0 mm (0,20 in)
EIA 7/8″ flanged	078F-ISUP-A0	49,0 mm (1,93 in)	23,8 mm (0,94 in)	4,7 mm (0,19 in)
EIA 1 5/8″ unflanged	R158-ISUP-A0	58,5 mm (2,30 in)	28,7 mm (1,13 in)	6,3 mm (0,25 in)
EIA 1 5/8″ flanged	158F-ISUP-A0	59,4 mm (2,34 in)	28,4 mm (1,12 in)	6,3 mm (0,25 in)
EIA 3 1/8″ unflanged	R318-ISUP-A0	76,3 mm (3,00 in)	45,3 mm (1,78 in)	8,2 mm (0,32 in)
EIA 3 1/8″ flanged	318F-ISUP-A0	76,3 mm (3,00 in)	45,3 mm (1,78 in)	9,5 mm (0,37 in)
RL98 unflanged	RL98-ISUP-A0	92,3 mm (3,63 in)	32,2 mm (1,27 in)	8,2 mm (0,32 in)
RL98 flanged	R98F-ISUP-A0	92,3 mm (3,63 in)	32,2 mm (1,27 in)	8,2 mm (0,32 in)
EIA 4 1/2″ unflanged	R412-ISUP-A0	108,5 mm (4,27 in)	47,5 mm (1,87 in)	9,4 mm (0,37 in)
EIA 4 1/2″ flanged	412F-ISUP-A0	100,6 mm (3,96 in)	45,6 mm (1,80 in)	9,8 mm (0,38 in)
Nax 120 unflanged	R120-ISUP-A0	92,2 mm (3,63 in)	32,2 mm (1,27 in)	8,2 mm (0,32 in)
EIA 6 1/8″ unflanged	R618-ISUP-A0	108,0 mm (4,25 in)	63,0 mm (2,48 in)	8,2 mm (0,32 in)
EIA 6 1/8″ flanged	618F-ISUP-A0	108,0 mm (4,25 in)	63,0 mm (2,48 in)	11,1 mm (0,44 in)
RL230 unflanged	R230-ISUP-A0	219,8 mm (8,65 in)	139,8 mm (5,50 in)	16,0 mm (0,63 in)
RL230 flanged	230F-ISUP-A0	228,0 mm (8,98 in)	148,0 mm (5,83 in)	25,0 mm (0,98 in)

Elbows

JUARANTEE

PRODUCT FEATURES

- High quality copper
- Easy assembly
- Customising possibilities

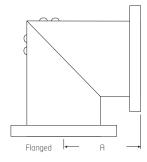
PRODUCT PROFILE

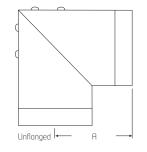
Exir Broadcasting manufactures elbows for all our rigid lines, both for outdoor and indoor use. The outdoor models are equipped with fixed or swivel flanges. O-rings of high quality EPDIN are used for gas tight flanged connections.

All the support insulators for the inner conductor are made of high quality teflon (PTFE) that has been controlled and adjusted before manufacturing.









LINE TYPE	ARTICLE	Dim. A	MATERIAL OUTER CONDUCTOR
EIA 7/8″ unflanged	R078-ELBO-A0	42.5 mm (1.67 in)	Copper
EIA 7/8″ flanged	078F-ELBO-AA00	30° (male - male)	Silver-plated brass
EIA 1 5/8″ unflanged	R158-ELBO-A0	42.1 mm (1.77 in)	Copper
EIA 1 5/8″ flanged	158F-ELBO-A0	59.0 mm (2.32 in)	Silver-plated brass
EIA 3 1/8″ unflanged	R318-ELBO-A0	80.0 mm (3.15 in)	Copper
EIA 3 1/8″ flanged	318F-ELBO-A0	102.2 mm (4.02 in)	Silver-plated brass
RL98 unflanged	RL98-ELBO-A0	85.0 mm (3.35 in)	Copper
EIA 4 1/2″ unflanged	R412-ELBO-A0	87.8 mm (3.46 in)	Copper
EIA 4 1/2″ flanged	412F-ELBO-AC00	100.0 mm (3.94 in)	
Nax 120 unflanged	R120-ELBO-A0	97.5 mm (3.84 in)	Aluminum
EIA 6 1/8″ unflanged	R618-ELBO-A0	117.8 mm (4.46 in)	Copper
EIA 6 1/8″ flanged	618F-ELBO-A0	148.8 mm (5.86 in)	Copper
RL230 unflanged	R230-ELBO-A0	1 <i>57</i> .5 mm (6.20 in)	Aluminum
RL230 flanged	230F-ELBO-A0	231.5 mm (9.11 in)	Aluminum

Measurement Equipment

Rigid Line

Accessories

Adapters



CONNECTING ENDS	Length	ARTICLE
	(outer co	nductor)
EIA 7/8" unflanged to N-female	77 mm	R078-00Nf-A0
EIA 7/8" unflanged to DIN 7/16 female	66 mm	R078-716f-A0
EIA 7/8" unflanged to DIN 7/16 male	67 mm	R078-716m-A0
EIA 7/8" unflanged to EIA 7/8" flanged	26 mm	R078-078F-A0
EIA 7/8" flanged to DIN 7/16 female	77 mm	078F-716f-A0
EIA 7/8" flanged to DIN 7/16 male	78 mm	078F-716m-A0
EIA 1 5/8" unflanged to N female	84 mm	158R-00Nf-AA00
EIA 1 5/8" unflanged to DIN 7/16 female	74 mm	R158-716f-A0
EIA 1 5/8" unflanged to DIN 7/16 male	74 mm	R158-716m-A0
EIA 1 5/8" unflanged to EIA 7/8 unflanged	87 mm	158R-078R-AA00
EIA 1 5/8" unflanged to EIA 7/8 flanged	97 mm	R158-078F-A0
EIA 1 5/8" unflanged to EIA 1 5/8" flanged	36 mm	R158-158F-A0
EIA 1 5/8" flanged to DIN 7/16 female	88 mm	158F-716f-A0
EIA 1 5/8" flanged to DIN 7/16 male	89 mm	158F-716m-A0
EIA 3 1/8" unflange to N female	97 mm	318R-00Nf-AA00
EIA 3 1/8" unflanged to DIN 7/16 female	87 mm	R318-716f-A0
EIA 3 1/8" unflanged to DIN 7/16 male	88 mm	R318-716m-A0
EIA 3 1/8" unflanged to EIA 7/8" flanged	106 mm	R318-078F-A0
EIA 3 1/8" unflanged to EIA 1 5/8" unflanged	85 mm	R318-R158-A0
EIA 3 1/8" unflanged to EIA 1 5/8" flanged	101 mm	R318-158F-A0
EIA 3 1/8" unflanged to EIA 3 1/8" flanged	45 mm	R318-318F-A0
EIA 3 1/8" flanged to DIN 7/16 female	109 mm	318F-716f-A0
EIA 3 1/8" flanged to DIN 7/16 male	110 mm	318F-716m-A0
EIA 3 1/8" flanged to EIA 1 5/8" flanged	125 mm	318F-R158-A0
RL98 to DIN 7/16 female	121 mm	RL98-716f-A0
RL98 to DIN 7/16 male	122 mm	RL98-716m-A0
RL98 to EIA 1 5/8″ unflanged	124 mm	RL98-R158-A0
RL98 to EIA 1 5/8" flanged	89 mm	RL98-158F-A0
RL98 to EIA 3 1/8″ unflanged	95 mm	RL98-R318-A0
RL98 to EIA 3 1/8" flanged	120 mm	RL98-318F-A0
EIA 4 $1/2''$ unflanged to DIN 7/16 female	134 mm	412R-716f-AA00
EIA 4 $1/2"$ unflanged to DIN 7/16 male	135 mm	412R-716m-AA0
EIA 4 1/2" unflanged to $EIA 1 5/8"$ unflanged	135 mm	412R-158R-AA00
EIA 4 $1/2"$ unflanged to EIA 3 $1/8"$ unflanged	95 mm	412R-318R-AA00
EIA 4 1/2" unflanged to EIA 3 1/8" flanged	118 mm	R412-318F-A0
EIA 4 1/2'' unflanged to RL98	97 mm	412R-RL98-AA00
EIA 4 $1/2"$ unflanged to EIA 4 $1/2"$ flanged	63 mm	R412-412F-A0
EIA 4 $1/2''$ flanged to EIA 3 $1/8''$ unflanged	118 mm	412F-R318-A0
EIA 4 $1/2''$ flanged to RL98	120 mm	412F-RL98-A0
Nax 120 to DIN 7/16 female	130 mm	R120-716f-A0
Nax 120 to DIN 7/16 male	131 mm	R120-716m-A0
Nax 120 to RL98	107 mm	R120-RL98-A0
Nax 120 to EIA 4 1/2" flanged	125 mm	
		R120-412F-A0
EIA 6 1/8" unflanged to RL98	136 mm	R618-RL98-A0
EIA 6 $1/8''$ unflanged to Nax 120	123 mm	R618-R120-A0
EIA 6 1/8" unflanged to EIA 6 1/8" flanged	71 mm	R618-618F-A0
EIA 6 1 / 8" flanged to RL98	167 mm	618F-RL98-A0
EIA 6 1/8" flanged to Nax 120	154 mm	618F-R120-A0
EIA 6 1/8" flanged to EIA 3 1/8" flanged	186 mm	618F-318F-A0
RL230 to EIA 6 1/8" flanged	190 mm	R230-618F-A0
RL230 to RL230 flanged	84 mm	R230-230F-A0

PRODUCT FEATURES

- Manufactured in silver-plated brass and PTFE teflon
- Wide range of sizes
- Low VSWR

PRODUCT PROFILE

Exir Broadcasting manufactures a wide variety of adapters for flanged and unflanged rigid line and other connectors. Custom designs are also available.

We guarantee VSWR lower than 1.05 on every adapter. The maximum power is the same as the specifications for the smallest diameter/connector. Measurment protocols and more detailed specifications concerning the materials used are available on request.

The adapters that we manufacture are made from solid silver-plated brass. The most common material for support and isolation details is high quality teflon (PTFE). The teflon is electrically controlled before being milled and lathed into its final shape. As different types of teflon have different electrical characteristics, these measurements are monitored to help us maintain uniform high quality.

All models with flanges at both ends are fully waterproof. Joints and holes for screws are covered with high quality EPDM or silicone O-rings. These gaskets also maintain internal gas pressure in pressurised systems.

Coupling Kits

Flanged coupling kit

Flanged coupling kit put togehter

PRODUCT PROFILE

O-rings, bolts, nuts and washers for outdoor and indoor use. The unflanged version comprises an inner bullet, an outer sleeve and two or more tube clamps (depending on format), and is suitable for indoor use.

castina	P +46 415 164 00	F +46 415 166 01	info@exirbroadcastina.com	www.exirbroadcastina.com	



Unflanged coupling kit



Unflanged coupling kit put togehter

The flanged version comprises flanged inner supports,

ARTICLE	ТҮРЕ
R078-CKIT-A0	7/8″ Unflanged coupling kit
078F-CKIT-A0	7/8" Flanged coupling kit
R158-CKIT-A0	1 5/8″ Unflanged coupling kit
158F-CKIT-A0	1 5/8″ Flanged coupling kit
R318-CKIT-A0	3 1/8″ Unflanged coupling kit
318F-CKIT-A0	3 1/8" Flanged coupling kit
RL98-CKIT-A0	RL98 Unflanged coupling kit
R98F-CKIT-A0	RL98 Flanged coupling kit
R412-CKIT-A0	4 1/2" Unflanged coupling kit
412F-CKIT-A0	4 1/2" Flanged coupling kit
R120-CKIT-A0	Nax 120 Unflanged coupling kit
R618-CKIT-A0	6 1/8″ Unflanged coupling kit
618F-CKIT-A0	6 1/8" Flanged coupling kit
R230-CKIT-A0	RL230 Unflanged coupling kit







Power Load 50 kW / 100 kW Water-cooled





PRODUCT FEATURES

- Excellent VSWR
- Moisture-proof
- Customising possibilities
- Resistor-less construction
- Compact size
- Adapters to all line sizes

PRODUCT PROFILE

These well proven loads have provided years of reliable service in UHF systems throughout the world. The elegant and simple design requires no resistor and is well suited to high peak voltage applications. Using either water or water glycol mixture for cooling, the loads efficiently absorb transmitter powers up to 100 kW.

ARTICLE	LDB4-040K-A0	LDB4-100K-A0
FREQUENCY RANGE	470 - 860 MHz	470 - 860 MHz
MAX INPUT POWER (at 25°C)	50 kW	100 kW
IMPEDANCE	50 Ohm	50 Ohm
VSWR (at operating channel)	<1.05 (>32 dB) with matching section	<1.05 with (>32 dB) matching section
COOLING SYSTEM CONN.	1" FPT	2" FPT
COOLING FLUID	Water glycol	Water glycol
WATER FLOW	35 l/min	100 l/min
CONNECTION	RL98	EIA 6 1/8" flanged
DIMENSIONS	Diameter 148 mm (5.53 in)	Diameter 262 mm (10.3 in)
	Length 650 mm (25.61 in)	Length 1370 mm (53.9 in)
WEIGHT	20 kg (44.1 lb)	~70 kg (154.3 lb)

Power Load 200, 600 and 1200 W Dry



Introduction

PRODUCT PROFILE

These loads are well proven convection cooled loads that are used in all are combiners and systems and also as a stand alone component. The compact design and high-quality production is matter of course for many years in trouble free service.

600 W

ARTICLE	LDB4-0600-A0	LDB4-0600-B0	LDB4-0600-C0
FREQUENCY RANGE	470 - 860 MHz	470 - 860 MHz	470 - 860 MHz
MAX INPUT POWER (at 25°C)	200 W	600 W with cooling flange	1200 W with cooling flange
IMPEDANCE	50 Ohm	50 Ohm	50 Ohm
VSWR (at operating channel)	<1.05 (>32 dB)	<1.05 (>32 dB)	<1.05 (>32 dB)
AMBIENT TEMPERATURE	-55° C to +80° C	-55° C to +80° C	-55° C to +80° C
CONNECTOR	DIN 7/16 female	DIN 7/16 female	DIN 7/16 female
DIMENSIONS	300 x 105 x 45 mm	80 x 615 x 680 mm	80 x 615 x 1360 mm
L x W x H	(11.8 x 4.13 x 1.77 in)	(3.15 x 24.21 x 26.77 in)	(3.15 x 24.21 x 53.54 in)
WEIGHT	4 kg (8.82 lb)	16.6 kg (36.59 lb)	33.2 kg (73.18 lb)

0

200 W



Power Load 5, 25 and 100 W Dry









PRODUCT PROFILE

These loads are well proven convection cooled loads that are used in all are combiners and systems and also as a stand alone component. The compact design and high-quality production is matter of course for many years in trouble free service.

ARTICLE	LDB0-0005-A0	LDB0-0005-B0
FREQUENCY RANGE	0-1 GHz	0-1 GHz
MAX INPUT POWER (at 25° C)	5 W	5 W
IMPEDANCE	50 Ohm	50 Ohm
RETURN LOSS (0-1 GHz)	>35 dB	>35 dB
AMBIENT TEMPERATURE	-55° C to +80° C	-55° C to +80° C
CONNECTOR	DIN 7/16 female	DIN 7/16 male
DIMENSIONS	Lenght 73 mm (2.88 in)	Lenght 73 mm (2.88 in)
	Diam. 73 mm (2.88 in)	Diam. 73 mm (2.88 in)
WEIGHT	400 g (0.87 lb)	400 g (0.87 lb)
ARTICLE	LDB0-0025-AE00 DIN 7/16 female	LDB0-0025-AG00 N female
	LDB0-0025-AF00 DIN 7/16 male	LDB0-0025-AH00 N male
FREQUENCY RANGE	0-1 GHz	0-1 GHz
MAX INPUT POWER (at 25° C)	25 W	25 W
IMPEDANCE	50 Ohm	50 Ohm
RETURN LOSS (0-1 GHz)	>35 dB	>35 dB
AMBIENT TEMPERATURE	-55° C to +80° C	-55° C to +80° C
CONNECTOR	DIN 7/16 female/male	N female/male
DIMENSIONS~	122 x 58 x 65 mm	133 x 58 x 65 mm
L x W x H	(4.80 × 2.28 × 2.56 in)	(5.24 x 2.28 x 2.56 in)
WEIGHT~	820 g (1.8 lb)	820 g (1.8 lb)
ARTICLE	LDB0-0100-A0	LDB0-0100-B0
FREQUENCY RANGE	0-1 GHz	0-1 GHz
MAX INPUT POWER (at 25° C)	100 W	100 W
IMPEDANCE	50 Ohm	50 Ohm
	- 25 JD	- 25 JD

Matching Sections





PRODUCT FEATURES

- Manufactured in silver-plated brass and copper
- All line sizes up to 6 1/8"
- Gas tight versions available
- Flanged and unflanged options
- FM, VHF and UHF versions available

PRODUCT PROFILE

These high-quality units are constructed from silverplated brass and copper with a low-loss copper inner. Tuners can vary in number up to 10 depending on application and are available in both pressurised and non-pressurised versions. Available in all rigid line sizes up to 6 1/8" for VSWR matching in all radio and TV bands.



Directional Couplers



for Monitoring Various Power Levels

PRODUCT FEATURES

- Forward and reverse couplers
- Adjustable coupling
- Low VSWR
- Low cost

PRODUCT PROFILE

Directional couplers consist of a short loop inserted in the rigid line. Each end of the loop is then connected to a suitable contact, i.e. an Π -type contact. Between the inner conductor and the loop there are two types of coupling - inductive and capacitive. The inductive coupling resembles a short coil with the voltage at each end 180 degrees apart. The capacitive coupling generates a phase voltage at both ends.

All our directional couplers deliver excellent directivity, stable performance and Iow VSWR.

Other combinations than those shown below are available on request

ARTICLE	DIRC-078R-AA00	DIRC-R158-A0	DIRC-R318-A0	DIRC-RL98-A0
DIRECTIVITY	40 dB	40 dB	40 dB	40 dB
COUPLING RANGE	Customer specified	Customer specified	Customer specified	Customer specified
OUTPUT JACK	Type N female	Type N female	Type N female	Type N female
OUTPUT SOURCE				
IMPEDANCE	50 Ohm	50 Ohm	50 Ohm	50 Ohm
MOUNTING	7/8″	EIA 1 5/8	EIA 3 1/8	RL 98
ARTICLE	DIRC-R120-A0	DIRC-R618-A0	DIRC-R230-A0	
DIRECTIVITY	40 dB	40 dB	40 dB	
COUPLING RANGE	Customer specified	Customer specified	Customer specified	
OUTPUT JACK	Type N female	Type N female	Type N female	
OUTPUT SOURCE				
IMPEDANCE	50 Ohm	50 Ohm	50 Ohm	
MOUNTING	NAX 120	EIA 6 1/8	RL 230	



Directional Couplers



for Monitoring Various Power Levels



Other combinations than those shown below are available on request

1 DIRECTIONAL COUPLER MOUNTED ON A PIECE OF RIGID LINE

T DIRECTIONAL COUPLER MOUNTED ON A FIECE OF RIGID LINE					
ARTICLE	MDIR-7160-A0	MDIR-R158-A0	MDIR-R318-A0	MDIR-RL98-A0	MDIR-R120-A0
DIRECTIVITY	40 dB				
COUPLING RANGE	Customer specified				
OUTPUT JACK	Type N female				
OUTPUT SOURCE					
IMPEDANCE	50 Ohm				
MOUNTING	DIN 7/16	EIA 1 5/8	EIA 3 1/8	RL 98	NAX 120



Other combinations than those shown below are available on request 2 DIRECTIONAL COUPLERS MOUNTED ON A PIECE OF RIGID LINE

ARTICLE	MDR2-412R-AA00	MDIR-2158-A0	MDIR-2158F-A0	MDIR-2318-A0	MDIR-2RL98-A0
DIRECTIVITY	40 dB				
COUPLING RANGE	Customer specified				
OUTPUT JACK	Type N female				
OUTPUT SOURCE					
IMPEDANCE	50 Ohm				
MOUNTING	EIA 4 1/2	EIA 1 5/8	EIA 1 5/8 flanged	EIA 3 1/8	RL 98



Other combinations than those shown below are available on request

3 DIRECTIONAL COUPLERS MOUNTED ON A PIECE OF RIGID LINE

ARTICLE	MDIR-3158-A0	MDIR-3158F-A0	MDIR-3318-A0	MDIR-3RL98-A0	
DIRECTIVITY	40 dB	40 dB	40 dB	40 dB	
COUPLING RANGE	Customer specified	Customer specified	Customer specified	Customer specified	
OUTPUT JACK	Type N female	Type N female	Type N female	Type N female	
OUTPUT SOURCE					
IMPEDANCE	50 Ohm	50 Ohm	50 Ohm	50 Ohm	
MOUNTING	EIA 1 5/8	EIA 1 5/8 flanged	EIA 3 1/8	RL 98	
					-

RF Power Monitor

With Directional Couplers

PRODUCT FEATURES

- Digital RF Power Meter
- RMS, Average and Peak Sync modes
- VHF Band I, II and III, UHF Band IV and V
- 7/8", 1 5/8", 3 1/8", RL98, 4 1/2", NAX 120, 6 1/8" and RL230(EIA 230/100) rigid line sections with directional couplers available
- Frequency compensated for use with Directional Coupler
- Additional power reflected
- VSWR Calculator and limit
- Analogue input, temperature and limit
- Digital input/output
- RS 232 data out
- Monitoring, limit checking and alarm

PRODUCT PROFILE

The RF Power Monitor from Exir Broadcasting is designed to Connection to the RF transmission line is achieved using Exir provide customers with a reasonably priced solution featuring all the functionality they require for monitoring various power levels.

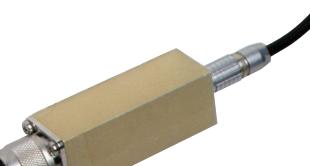
The solution comes in both 1 U 19" and stand-alone designs, The solution also features alarm functions enabling maintenance and incorporates a front display panel for on-site monitoring as personnel to be notified in the event of possible problems. well as a communications controller for remote monitoring.

Broadcastings standard directional couplers. This means that units can also be purchased separately and easily integrated into the system.

VHF and UHF Probe For Broadcast RF Power Monitor

PRODUCT FEATURES

- True RMS Probe
- Multi carrier and any waveform detector
- Frequency compensated for use with Directional Coupler





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Reliability and High-Performance



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