

Professional broadcast equipment supplier

CATALOGUE

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Coaxial Switches connected in Matrix Systems

# **Product Index**





## **1 5/8"- 50** Ω



RL 158.14





RL 158.35



RL 158.32



RL 158.01

RL 158.19
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Outer Conductor:	high conductivity
	(Ø41.3 mm. x Ø
Inner Conductor:	high conductivity
	(Ø16.9 mm. x 🖗
Insulation Material:	virgin PTFE

gh conductivity hard drawn copper tubing  $\emptyset$  41.3 mm. x  $\emptyset$  38.8 mm.) gh conductivity hard drawn copper tubing  $\emptyset$  16.9 mm. x  $\emptyset$  14.9 mm.) rgin PTEE



\* All dimensions shown are in milimeters.

\* Drawings not to scale.

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Mating Face Dimension - 1 5/8" (EIA standard RS-225)

**Rigid Transmission Line Components** 

**1 5/8"- 50** Ω



**1 5/8"- 50** Ω



## **1 5/8"- 50** Ω





**1 5/8"- 50** Ω



++ 389 (2) 2470 247, e-mail: info@trineksgroup.com www.trineksgroup.com





RL 318.11







RL 318.22



RL 318.01

RL 318.32

Outer Conductor: Inner Conductor: Insulation Material: high conductivity hard drawn copper tubing ( $\emptyset$  79.4 mm. x  $\emptyset$  76.9 mm.) high conductivity hard drawn copper tubing ( $\emptyset$  33.4 mm. x  $\emptyset$  31.3 mm.) virgin PTFE



\* All dimensions shown are in milimeters. \* Drawings not to scale. Mating Face Dimension - 3 1/8" (EIA standard RS-225)

**Rigid Transmission Line Components** 

**3 1/8"- 50** Ω





125

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Line size 3 1/8"

Line size 3 1/8"

Line size 3 1/8"

Miter elbow 90°, swivel EIA flanges on both ends, reinforced outside, brass and copper construction. Includes <u>unsupported</u> inner conductor, one anchor insulator conductor connector, silicone O-ring and stainless steel hardware set.

### RL 318.11

Miter elbow 90°, swivel EIA flanges on both ends, reinforced outside, brass and copper construction. Includes <u>supported</u> inner conductor, anchor insulator conductor connector, silicone O-ring and stainless steel hardware set.

RL 318.14



125

1

100

Miter elbow 90<sup>o</sup>-unequal legs, swivel EIA flanges on both ends, reinforced outside, brass and copper construction. Includes supported inner conductor, one anchor insulator conductor connector, silicone O-ring and stainless steel hardware set.

### RL 318.16

Tee assembly, swivel EIA flanges. Includes three anchor insulator connectors, O-rings and hardware sets.

## RL 318.19

Miter elbow 90°-unflanged, reinforced outside, copper construction. Includes only one unsupported inner conductor.



Line size 3 1/8"



\* All dimensions shown are in milimeters.

\* Drawings not to scale.

**3 1/8"- 50** Ω



3 1/8"- 50 Ω





## **4 1/2"- 50** Ω



RL 412.11



RL 412.35





RL 412.01

RL 412.50

Mating Face Dimension - 4 1/2"

Outer Conductor: Inner Conductor: high conductivity hard drawn copper tubing ( $\emptyset$  106 mm. x  $\emptyset$  103 mm.) high conductivity hard drawn copper tubing ( $\emptyset$  44.7 mm. x  $\emptyset$  42.8 mm.) virgin PTFE

Insulation Material: virgin



### 

\* All dimensions shown are in milimeters.

\* Drawings not to scale.



4 1/2"- 50  $\Omega$ 



**4 1/2"- 50** Ω



\* All dimensions shown are in milimeters.

\* Drawings not to scale.



\* Drawings not to scale.



\* All dimensions shown are in milimeters.

\* Drawings not to scale.



## **6 1/8"- 50** Ω



RL 618.11



RL 618.01



RL 618.35



RL 618.50

Outer Conductor:	high conductivity ha
	(∅155,6 mm. x ∅
Inner Conductor:	high conductivity ha
	(∅66 mm. x ∅64
T 1 (* ) T ( * 1	· · DTFF

ard drawn copper tubing ) 151,9 mm.) ard drawn copper tubing 4 mm. )

Insulation Material: virgin PTFE



\* All dimensions shown are in milimeters.

\* Drawings not to scale.

**Rigid Transmission Line Components** 

6 1/8"- 50 Ω



**6 1/8"- 50** Ω



6 1/8"- 50 Ω



\* All dimensions shown are in milimeters.

\* Drawings not to scale.



\* Drawings not to scale.



## Motorized RF Power Transfer Switch 7/16"

model	power source
SW 716.01	24 VDC
SW 716.02	110 VAC *
SW 716.03	230 VAC *

\* electro motors are 24 VDC (transformers included)

The models SW 716.01, SW 716.02 and SW 716.03 are motor-driven, two-way coaxial transfer switches designed to change coaxial connections with a minimum off-airtime.Mainly they are used for switching transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance.

The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

The aluminium cavity has four ports terminated with standard 7/16" DIN female interfaces. The assembly is not gas-tight. The switch is equipped with a mechanical position indicator and emergency knob for manual operating.







Frequency range

Terminals

VSWR

Maximum power rating:

			U				
	MHz	2	30	100	200	500	1000
	kW	9	6	4	3	2,2	1,4
Isol	ation		n	nore that	n 60 dB		
Swi	tching t	ime	1	second			
Test voltage AC 50Hz			Hz 3	3 kV peak			
Ove	eral dim	ensions	1	20x120	x180		



\* All dimensions shown are in milimeters.

\* Drawings not to scale.



Manual RF Pov	ver Transfer	Switch	7/16"
---------------	--------------	--------	-------

model	power source
SW 716.04	manual

The model SW 716.04 is two-way coaxial transfer switch designed for easy and reliable manual switching of transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance.

The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be

established again just after the RF contacts reach their final position.

The aluminium cavity has four ports terminated with standard 7/16" DIN female interfaces. The assembly is not gas-tight.

Besides handwheel for manual operating, the switch is equiped with a mechanical position indicator.

50 ohms

30

6

less than 1.05

4

120x120x105

more than 60 dB

from 0.3 up to 1000 MHz

four 7/16" DIN female interfaces

 100
 200
 500
 1000

 4
 3
 2,2
 1,4





Legend:

S1 upper auxiliary micro switch S2 lower auxiliary micro switch

S3 upper auxiliary micro switch

S4 lower auxiliary micro switch

**Specifications** 

Frequency range

MHz

kW

**Overal dimensions** 

Maximum power rating:

9

Test voltage AC 50Hz 3 kV peak

Impedance

Terminals

VSWR

Isolation

\* All dimensions shown are in milimeters.

\* Drawings not to scale.



## Motorized RF Power Transfer Switch 7/8"

model	power source
SW 78.01	24 VDC
SW 78.02	110 VAC *
SW 78.03	230 VAC *

\* electro motors are 24 VDC (transformers included)

The models SW78.01, SW 78.02 and SW 78.03 are motor-driven, two-way coaxial transfer switches designed to change coaxial connections with a minimum off-airtime. Mainly they are used for switching transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance.

The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

The aluminium cavity has four ports terminated with standard 7/8" EIA flanges including non-removable inner conductor connectors. The assembly is not gas-tight. The switch is equipped with a mechanical position indicator and emergency knob for manual operating.





#### **Specifications**

-	
Impedance	50 ohms
Frequency range	from 0.3 up to 1000 MHz
Terminals	four 7/8" EIA flanges, plug
VSWR	less than 1.05

Maximum power rating:

			U				
	MHz	2	30	100	200	500	1000
	kW	14	8	4,5	3,5	2,3	1,7
Isol	ation		m	ore that	n 60 dB		
Switching time			1	second			
Test voltage AC 50Hz			Hz 4,	5 kV pe	eak		
Overal dimensions		14	40x140z	x195			

\* All dimensions shown are in milimeters.

\* Drawings not to scale.



model	power source
SW 78.04	manual

The model SW 78.04 is two-way coaxial transfer switch designed for easy and reliable manual switching of transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance. The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

The aluminium cavity has four ports terminated with standard 7/8" EIA flanges including non-removable inner conductor connectors. The assembly is not gas-tight. Besides handwheel for manual operating, the switch is equiped with a mechanical position indicator.

50 ohms

30

8

less than 1.05

4,5 3,5

more than 60 dB

140x140x115

from 0.3 up to 1000 MHz

four 7/8' EIA flanges, plug

100 200 500 1000

2,3

1.7





Legend:

S1 upper auxiliary micro switch S2 lower auxiliary micro switch

S3 upper auxiliary micro switch

S4 lower auxiliary micro switch

## 

**Specifications** 

Frequency range

MHz

kW

**Overal dimensions** 

Maximum power rating:

14

Test voltage AC 50Hz 4,5 kV peak

Impedance

Terminals

VSWR

Isolation

\* All dimensions shown are in milimeters.

\* Drawings not to scale.



## Motorized RF Power Transfer Switch 1 5/8"

model	power source
SW 158.01	24 VDC
SW 158.02	110 VAC *
SW 158.03	230 VAC *

\* electro motors are 24 VDC (transformers included)

The models SW 158.01, SW 158.02 and SW 158.03 are motor-driven, two-way coaxial transfer switches designed to change coaxial connections with a minimum off-airtime. Mainly they are used for switching transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance.

The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

The aluminium cavity has four ports terminated with standard 1 5/8" EIA flanges including non-removable inner conductor connectors. The assembly is not gas-tight. The switch is equipped with a mechanical position indicator and emergency knob for manual operating.





1	
Impedance	50 ohms
Frequency range	from 0.3 up to 1000 MHz
Terminals	four 1 5/8" EIA flanges, plug
VSWR	less than 1.05
Maximum power rating	

Maximum power rating:

	-		•					
	MHz	2	30	100	200	500	1000	
	kW	85	24	13	9,5	5,5	4	
Isol	ation		n	nore that	n 60 dB			
Switching time			1	second				
Test voltage AC 50Hz			Hz 8	8 kV peak				
Ove	Overal dimensions		1	190x190x230				



D

\* All dimensions shown are in milimeters.

\* Drawings not to scale.



50 Ω

model	power source
SW 158.04	manual

The model SW 158.04 is two-way coaxial transfer switch designed for easy and reliable manual switching of transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance.

The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final

position. The aluminium cavity has four ports terminated with standard 1 5/8" EIA flanges including non-removable inner conductor connectors. The assembly is not gas-tight. Besides handwheel for manual operating, the switch is equiped with a mechanical position indicator.

50 ohms

30

24

less than 1.05

100

from 0.3 up to 1000 MHz

four 1 5/8" EIA flanges, plug

200

13 9.5

more than 60 dB

190x190x150

500 1000

5.5





Legend:

S1 upper auxiliary micro switch S2 lower auxiliary micro switch S3 upper auxiliary micro switch

S4 lower auxiliary micro switch

S4 lower auxiliary micro s

\* All dimensions shown are in milimeters.

\* Drawings not to scale.

**Specifications** 

Frequency range

MHz

kW

Overal dimensions

Maximum power rating:

2

85

Test voltage AC 50Hz 8 kV peak

Impedance

Terminals

VSWR

Isolation

## Motorized RF Power Transfer Switch 3 1/8"

model	power source
SW 318.01	24 VDC
SW 318.02	110 VAC *
SW 318.03	230 VAC *

\* electro motors are 24 VDC (transformers included)

The models SW 318.01, SW 318.02 and SW 318.03 are motor-driven two-way coaxial transfer switches designed to change coaxial connections with a minimum off-air-time. Mainly they are used for switching transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance.

The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

The aluminum RF cavity has four ports terminated with 3 1/8" EIA flanges including non-removable inner conductor connectors. The assembly is not gas tight. The switch is equipped with a mechanical position indicator and emergency knob for manual operating.



50 Ω



#### **Specifications**

50 ohms
from 0.3 up to 900 MHz
four 3 1/8" EIA flanges, plug
less than 1.05

Maximum power rating:

MHz	2	30	100	200	500	900	
kW	140	75	42	30	20	14	
Isolation			ore that	n 60 dB			
Switching time			second	S			
Test voltage AC 50Hz		Hz 1	18 kV peak				
Overal dimensions		2	275x275x285				
	kW ation itching t t voltage	kW140ationitching timet voltage AC 50	kW14075ationmitching time2t voltage AC 50Hz1	kW1407542ationmore thaitching time2 secondt voltage AC 50Hz18 kV pe	kW140754230ationmore than 60 dBatching time2 secondst voltage AC 50Hz18 kV peak	kW14075423020ationmore than 60 dBatching time2 secondst voltage AC 50Hz18 kV peak	



\* All dimensions shown are in milimeters.

\* Drawings not to scale.

Manual RF Power Transfer Switch 3 1/8" EIA

model	power source
SW 318.04	manual

The model SW 318.04 is two-way coaxial transfer switch designed for easy and reliable manual switching of transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance.

The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position. The aluminum RF cavity has four ports terminated with 3 1/8" EIA flanges including non-removable inner conductor connectors. The assembly is not gas-tight Besides handwheel for manual operating, the switch is eqquiped with a mechanical position indicator.



Specifications						
Impedance	npedance 50 ohms					
Frequency	Frequency range from 0.3 up to 900 MHz			Z		
Terminals	inals four 3 1/8' EIA flanges, plug					
VSWR	less than 1.05					
Maximum power rating:						
MHz	MHz 2 30 100 200 500 900					900
kW	kW   140   75   42   30   20   14					
Isolation	more than 60 dB					
Test voltage AC 50Hz 18 kV peak						

275x275x285

D O B
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
contact breaker cam
D B switch cavity

Legend:

S1 upper auxiliary micro switch S2 lower auxiliary micro switch

S3 upper auxiliary micro switch

S4 lower auxiliary micro switch

S4 lower auxiliary micro switch



\* All dimensions shown are in milimeters.

\* Drawings not to scale.

Overal dimensions

## Motorized RF Power Transfer Switch 4 1/2"

model	power source
SW 412.01	24 VDC
SW 412.02	110 VAC *
SW 412.03	230 VAC *

\* electro motors are 24 VDC (transformers included)

The models SW 412.01, SW 412.02 and SW 412.03 are motor-driven two-way coaxial transfer switches designed to change coaxial connections with a minimum off-air-time.Mainly they are used for switching transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance.

The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

The aluminum RF cavity has four ports terminated with 4 1/2" EIA flanges including non-removable inner conductor connectors. The assembly is not gas-tight. The switch is equipped with a mechanical position indicator and emergency knob for manual operating.





#### Specifications

Impedance	50 ohms
Frequency range	from 0.3 up to 800 MHz
Terminals	four 4 1/2" EIA flanges, plug
VSWR	less than 1.05

Maximum power rating:

MHz	2	30	100	200	500	800
kW	220	130	70	53	32	25
Isolation more than 60						
Switching time			seconds	5		
Test voltage AC 50Hz			5 kV pe	ak		
Overal dimensions			90x290x	x310		
	kW ation tching ti	kW220ationtching timevoltage AC 50	kW220130ationmtching time2voltage AC 50Hz33	kW22013070ationmore thantching time2 secondsvoltage AC 50Hz35 kV pe	kW2201307053ationmore than 60 dBtching time2 secondsvoltage AC 50Hz35 kV peak	kW220130705332ationmore than 60 dBtching time2 secondsvoltage AC 50Hz35 kV peak



\* All dimensions shown are in milimeters.

\* Drawings not to scale.



model	power source
SW 412.04	manual

The model SW 412.04 is two-way coaxial transfer switch designed for easy and reliable manual switching of transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance. The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

The aluminum RF cavity has four ports terminated with 4 1/2"EIA flanges including non-removable inner conductor connectors. The assembly is not gas-tight. Besides handwheel for manual operating, the switch is equipped with a mechanical position indicator.



Specifications							
Impedance			50 c	50 ohms			
Frequency range			from	from 0.3 up to 800 MHz			
Terminals four 4 1/2' EIA flanges, plug			nges, plug				
VSWR less th			than 1.	05			
Maximum power rating:							
MHz	2	30	100	200	500	800	
kW	220	130	70	53	32	25	

•	•		•	•
Isolation			more that	n 60 dB
Test voltage	AC 5	50Hz	35 kV pe	ak
Overal dim	ension	IS	290x290	x255



Legend:

S1 upper auxiliary micro switch S2 lower auxiliary micro switch

S3 upper auxiliary micro switch

S4 lower auxiliary micro switch

\* All dimensions shown are in milimeters.

\* Drawings not to scale.



## Motorized RF Power Transfer Switch 6 1/8"

model	power source
SW 618.01	24 VDC
SW 618.02	110 VAC *
SW 618.03	230 VAC *

\* electro motors are 24 VDC (transformers included)

The models SW 618.01, SW 618.02 and SW 618.03 are motor-driven two-way coaxial transfer switches designed to change coaxial connections with a minimum off-air-time.Mainly they are used for switching transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance.

The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

The aluminum RF cavity has four ports terminated with 6 1/8" EIA flanges including non-removable inner conductor connectors. The assembly is not gas-tight. The switch is equipped with a mechanical position indicator and emergency knob for manual operating.



#### Specifications

50 ohms
from 0.3 up to 700 MHz
four 6 1/8" EIA flanges, plug
less than 1.05

Maximum power rating:

MHz	2	30	100	200	500	700
kW	600	240	110	90	50	40
ation		m	ore than	n 60 dB		
Switching time			seconds	5		
Test voltage AC 50Hz			) kV pe	ak		
Overal dimensions		4(	400x400x355			
	kW ation tching ta voltage	ation tching time voltage AC 50	kW600240ationmtching time2voltage AC 50Hz40	kW600240110ationmore thantching time2 secondsvoltage AC 50Hz40 kV per	kW60024011090ationmore than 60 dBtching time2 secondsvoltage AC 50Hz40 kV peak	kW6002401109050ationmore than 60 dBtching time2 secondsvoltage AC 50Hz40 kV peak





\* All dimensions shown are in milimeters.

\* Drawings not to scale.



## Manual RF Power Transfer Switch 6 1/8" EIA

model	power source
SW 618.04	manual

The model SW 618.04 is two-way coaxial transfer switch designed for easy and reliable manual switching of transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance. The coaxial switch provides two isolated RF paths for each switch connections. For prevention of any damage a couple of auxiliary microswitches are built in, that help the RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

The aluminum RF cavity has four ports terminated with 6 1/8"EIA flanges including non-removable inner conductor connectors. The assembly is not gas-tight. Besides handwheel for manual operating, the switch is equipped with a mechanical position indicator.

50 ohms

less than 1.05

100

110

from 0.3 up to 700 MHz

200

more than 60 dB

400x400x310

90

four 6 1/8' EIA flanges, plug

500

50

700

40



$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	]
contact breaker cam	
D B switch cavity	

Legend:

S1 upper auxiliary micro switch S2 lower auxiliary micro switch

S3 upper auxiliary micro switch

S4 lower auxiliary micro switch

**Specifications** 

Frequency range

Maximum power rating: 2

**Overal dimensions** 

600

30

240

Test voltage AC 50Hz 40 kV peak

Impedance

Terminals

MHz

kW

Isolation

VSWR

All dimensions shown are in milimeters.

\* Drawings not to scale.



model	power source
SWU 318.01	24 VDC
SWU 318.03	110 VAC *
SWU 318.05	230 VAC *
SWU 318.07	manual

\* electro motors are 24 VDC (transformers included)

The models SWU 318.01, SWU 318.03 and SWU 318.05 are motor driven, SWU 318.07 is manual U-Link type, two-way coaxial switches 3 1/8" EIA. They are used for switching transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance. A couple of auxilary microswitches are built in, provide RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

They are designed for easy and reliable switching of coaxial transmission lines and systems, and are suitable for multiplying in matrices.

### Specifications

Impedance	50 ohms
Frequency range	from 0 up to 1000 MHz
Terminals	four 3 1/8" EIA flanges, plug
VSWR	less than 1.05
	1000 01001 1000

Maximum power rating:

	MHz 2		30		100	500	1000	
	kW	240	85		42	18	15	
Isolation 1					more than 100 dB			
Switching time				3 seconds				
Test voltage AC 50Hz				20 kV peak				
Overal dimensions				330x330x510				





24 VDC (230 VAC, 110 VAC)

\* All dimensions shown are in milimeters.

\* Drawings not to scale.


model	power source
SWU 412.01	24 VDC
SWU 412.03	110 VAC *
SWU 412.05	230 VAC *
SWU 412.07	manual

\* electro motors are 24 VDC (transformers included)

The models SWU 412.01, SWU 412.03 and SWU 412.05 are motor driven, SWU 412.07 is manual U-Link type, two-way coaxial switches 4 1/2"EIA . They are used for switching transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance. A couple of auxilary microswitches are built in, provide RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

They are designed for easy and reliable switching of coaxial transmission lines and systems, and are suitable for multiplying in matrices.

### Specifications

Impedance	50 ohms
Frequency range	from 0 up to 900 MHz
Terminals	four 4 1/2" EIA flanges, plug
VSWR	less than 1.05

Maximum power rating:

	MHz	2	30	100	500	900
	kW	430	150	70	32	23
Isolation			n	ore that	n 100 dl	В
Switching time			3	seconds	5	
Test voltage AC 50Hz			Hz 3	0 kV pe	ak	
Overal dimensions		4	30x430z	x550		





24 VDC (230 VAC, 110 VAC)

\* All dimensions shown are in milimeters.

\* Drawings not to scale.



# Coaxial Switch U-Link 4 1/16"

model	power source
SWU 4116.01	24 VDC
SWU 4116.03	110 VAC *
SWU 4116.05	230 VAC *
SWU 4116.07	manual

\* electro motors are 24 VDC (transformers included)

The models SWU 4116.01, SWU 4116.03 and SWU 4116.05 are motor driven, SWU 4116.07 is manual U-Link type, two-way coaxial switches 4 1/16" EIA. They are used for switching transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance. A couple of auxilary microswitches are built in, provide RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

They are designed for easy and reliable switching of coaxial transmission lines and systems, and are suitable for multiplying in matrices.

### Specifications

Impedance	50 ohms
Frequency range	from 0 up to 900 MHz
Terminals	four 4 1/16" EIA flanges, plug
VSWR	less than 1.05

Maximum power rating:

	MHz	2	30	100	500	900
	kW	430	150	70	32	23
Isolation			n	nore that	n 100 dl	В
Switching time			3	second	S	
Test voltage AC 50Hz			Hz 3	0 kV pe	ak	
Overal dimensions		4	30x430	x550		





24 VDC (230 VAC, 110 VAC)

◉₽

\* All dimensions shown are in milimeters.

\* Drawings not to scale.



model	power source
SWU 618.01	24 VDC
SWU 618.03	110 VAC *
SWU 618.05	230 VAC *
SWU 618.07	manual

\* electro motors are 24 VDC (transformers included)

The models SWU 618.01, SWU 618.03 and SWU 618.05 are motor driven, SWU 618.07 is manual U-Link type, two-way coaxial switches 6 1/8" EIA. They are used for switching transmitters, antennas, dummy loads and other peripheral equipment in situations when broadcasting procedures are modified, when there is need for emergency repair, or during scheduled maintenance. A couple of auxilary microswitches are built in provide RF power throughout the switch to be removed just before the RF spring contacts start to open and also to be established again just after the RF contacts reach their final position.

They are designed for easy and reliable switching of coaxial transmission lines and systems, and are suitable for multiplying in matrices.

### Specifications

Impedance	50 ohms
Frequency range	from 0 up to 700 MHz
Terminals	four 6 1/8" EIA flanges, plug
VSWR	less than 1.05

Maximum power rating:

	MHz	2	30	10	0	500	700
	kW	800	250	12	20	55	42
Isolation				nore t	haı	n 100 d	В
Switching time				5,5 sec	con	ds	
Test voltage AC 50Hz			Hz 4	0 kV	pe	ak	
Overal dimensions		:	500x5	002	x610		





24 VDC (230 VAC, 110 VAC)

\* All dimensions shown are in milimeters.

\* Drawings not to scale.



# **Coaxial Matrix Switching Systems**

Coaxial matrix switching system allow connecting any of a number of transmitters to any of a number of antenas. RF Matrix system are idealy suited for applications with high frequency. The design provides a compact system with excellent power rating, low insertion VSWR, low insertion loss, and high isolation characteristics, provides good flexibility and control.

Advantages of these system are that they allow adding of column or row switches. These matrices do not allow connection of two or more transmitters at the same time, or connection of two or more transmitters with one antenna at the same time.

Maintenance of these matrices is very easy because of direct access to any of switches.







\* All dimensions shown are in milimeters.

\* Drawings not to scale.





model	control panel input / output power
CP 00 01	* 230 VAC / 230 VAC
CP 00 05	* 230 VAC / 24 VDC

\* upon request units with voltage of 110VAC can be supplied instead of 230 VAC

The 19" rack control panel is designed for remote control of the motorized RF power transfer switch. The operating is easily possible using the two-way "operating switch". Each position of the "operating switch" 1 or 2 that is equipped with indication light, activates the electro motor of the RF power transfer switch that shiftes the connection between the transmitters and antennas.

Near the "operating switch" there are four lights with square arrangement, connected to each other with printed lines and arrows, that show the appropriate transmittersantennas path-connection. For each position of the "operating switch", under voltage are only two opposite lights that indicate the active RF path-connection of the RF power transfer switch. After activating the "operating switch" and establishing the other RF power connection in the RF switch, the other two lights, that indicate another transmitters-antennas connection, become active.



\* All dimensions shown are in milimeters.

\* Drawings not to scale.







\* All dimensions shown are in milimeters.

\* Drawings not to scale.



# UHF Panel Antenna with 8 el. (470 - 860 MHz)

50 Ω

model	input terminal
AN U NF.01	N (female)
AN U 716.03	7/16" DIN (female)
AN U 78.05	7/8" EIA

### Specifications

Impedance	50 ohms		
Frequency range	from 470 up to 860 MHz		
Gain	10 dB (refer to half-wave dipole)		
VSWR	less than 1.15 over the whole band		
Polarization	horizontal		
3 dB beamwidth	<i>H-plane</i> $70^{\circ}$		
	$V$ -plane $24^{\circ}$		
Front to back ratio	25 dB		
Power rating per panel	0,5 kW max (N female termination)		
	1 kW max (7/16" DIN termination)		
	2 kW max (7/8" EIA termination)		
Material used	<i>reflector</i> - stainless steel		
	<i>dipoles</i> - brass <i>radome</i> - red or white polyester		
Dimensions	1000x460x215		
Antenna weight	16 kg. without mounting brackets		
Wind surface	0.45 m <sup>2</sup>		
Antenna mounting	directly on the tower construction or with		
	galvanized mounting brackets supplied		
	with the antenna, designed for pole		
	diameters from 60 up to 140mm.		
Packing Shipping dimensions	in cartoon box $L \times W \times H (am) = 102 \times 47 \times 34 \text{ cm}$		
Shipping dimensions	L x W x H (cm) - 102 x 47 x 34 cm.		





four panel antennas in one bay quadrant arrangement

### mounting brackets





\* Drawings not to scale.



++ 389 (2) 2470 247, e-mail: info@trineksgroup.com



### Typical horizontal patterns

(work test at 35 channel (586MHz) at a distance of 250 mm from a mounting pole axis)



UHF panel antennas with eight elements can produce a wide variety of standard and custom azimuth patterns. For assistance in pattern selection or designing customized patterns we are completely at your disposal.



#### leveling of the panel antennas in quadrant arrangement







<u>NOTE</u>: each antenna is supplied with two mounting brackets

\* All dimensions shown are in milimeters.

\* Drawings not to scale.



# FM Dipole Antenna (87.5 - 108 MHz)

model	input terminal				
AN FD NF.01	N (female)				
AN FD 716.03	7/16" DIN (female)				
AN FD 78.05	7/8" EIA				

### Specifications

Impedance	50 ohms
Frequency range	from 87.5 up to 108 MHz
Gain	2 dB (refer to half-wave dipole)
VSWR	less than 1.3 over the whole band
Polarization	vertical
Front to back ratio	7.5 dB
Power rating	500 wats max (N type termination)
	1.0 kW max (7/16" DIN female termination)
	2.0 kW max (7/8" EIA termination)
Material used	<i>outer</i> - stainless steel tube <i>inner</i> - brass
	insulation - virgin PTFE
Dimensions	1374x814x57
Antenna weight	6.5 kg. without mounting brackets
Wind surface-no icing	0.15 m <sup>2</sup>
Antenna mounting	by using galvanized mounting bracket
	supplied with the antenna, designed for
	mounting pole diameters from 48 up to 108mm.





mounting bracket



(⊕)}∋

\* All dimensions shown are in milimeters. \* Drawings not to scale.





# FM Yagi Antenna with 3 el. (87.5 - 108 MHz)

50 Ω

model	input terminal			
AN FY NF.11	N (female)			
AN FY 716.13	7/16" DIN (female)			
AN FY 78.15	7/8" EIA			

### Specifications

Impedance	50 ohms			
Frequency range	from 87.5 up to 108 MHz			
Gain	4 dB (refer to half-wave dipole)			
VSWR	less than 1.25 over the whole band			
Polarization	horizontal or vertical			
3 dB beamwidth	<i>H-plane</i> $135^{\circ}$			
	$V$ -plane $70^{\circ}$			
Front to back ratio	12 dB			
Power rating	500 wats max (N type termination)			
	1.0 kW max (7/16" DIN female termination)			
	2.0 kW max (7/8" EIA termination)			
Material used	outer - stainless steel			
	inner - brass			
	insulation - virgin PTFE			
Dimensions	1860x1446x57			
Antenna weight	14 kg. without mounting brackets			
Wind surface-no icing	0.25 m <sup>2</sup>			
Antenna mounting	by using mounting bracket supplied with the			
	antenna, designed for mounting pole diameters			

from 50 up to 115mm.





mounting bracket

horizontal

radiation

pattern

polarization



\* All dimensions shown are in milimeters.

\* Drawings not to scale.

TRINEKS, Vladimir Komarov 40/2-5, 1000 Skopje, Republic of Macedonia

vertical

radiation

pattern

polarization



# FM Circular Antenna (87.5 - 108 MHz)

model	frequency range (Mhz)
AN FC 78.21	87,5 ÷ 99
AN FC 78.25	97 ÷ 108

### **Specifications**

Impedance	50 ohms				
Input terminals	7/8" EIA socket				
Gain	-2 dB (refer to half-wave dipole)				
VSWR	less than 1.3 over the whole band				
Polarization	circular				
Power rating	2 kW max				
Material used	<i>outer</i> - stainless steel <i>inner</i> - brass <i>insulation</i> - virgin PTFE				
Antenna weight					
(model AN FC	78.21) 16 kg.				
(model AN FC	78.25) 15 kg.				
Overall dimensions					

#### (model AN FC 78.21) 1503x1156 (Φ) (model AN FC 78.25) 1370x1062 (Φ)

 $0.24 \text{ m}^2$ 

Antenna mounting

Wind surface

by using mounting bracket supplied with the antenna, designed for mounting pole diameters from 50 up to 115mm.





\* All dimensions shown are in milimeters.

\* Drawings not to scale.

TRINEKS, Vladimir Komarov 40/2-5, 1000 Skopje, Republic of Macedonia







mounting bracket



## Model AN FP 78.05

### Specifications

Impedance	50 ohms
Frequency range	87.5 - 108 MHz
Input terminals	7/8" EIA socket (two terminals)
Gain	7 dB (refer to half-wave dipole)
VSWR	less than 1.2 over the whole band
Polarization	horizontal or vertical
Power rating	5 kW max
Material used	radiating element - stainless steel inner conductors - brass insulation - virgin PTFE reflector - hot-dip galvanized steel dipoles radomes - polyester
Antenna weight	85 kg.
Reflector dimensions	2200x2200



gain (dB) - ref. to half wave dipole 8 7 6 8 8 93 98 103 108 freq. (MHz)





horizontal polarization radiation pattern



vertical polarization radiation pattern

\* All dimensions shown are in milimeters.

\* Drawings not to scale.

 $(\oplus)$ 

TRINEKS, Vladimir Komarov 40/2-5, 1000 Skopje, Republic of Macedonia

50 Ω



# VHF Panel Antenna III band (174 - 230 MHz)

model	input terminal
AN VP 716.03	7/16" DIN (female)
AN VP 78.05	7/8" EIA

### Specifications

Impedance	50 ohms
Frequency range	from 174 up to 230 MHz
Gain	8 dB (refer to half-wave dipole)
VSWR	less than 1.2 over the whole band
Polarization	horizontal or vertical
Front to back ratio	25 dB
Power rating	2 kW max
Material used	radiating element - aluminum inner conductors - brass insolation - virgin PTFE reflector - aluminum dipoles radomes - red polyester
Reflector dimensions	1320x1320
Antenna weight	18 kg.











\* All dimensions shown are in milimeters.

\* Drawings not to scale.



# Power Splitters (FM, VHF and UHF)

## FM Power Splitters (87.5 - 108 MHz) VHF Power Splitters (174 - 230 MHz) UHF Power Splitters (470 - 860 MHz)

## **Specifications:**

Type of splitting:	balanced,
Impedance:	50 Ohms,
VSWR	less than 1.1,
Number of outputs:	2, 3 or 4,
Material used:	brass and PTFE ,
Finish:	dyed with dark gray synthetic
	paint after electrolytic bath.



50 Ω

pair of clamps (supplied upon request)





\* All dimensions shown are in milimeters.

\* Drawings not to scale.



50 Ω



FM Power Splitters (87.5 - 108 MHz):

Co	nectors	Ordering	Average		Dime	ensions (	mm.)	
input	outputs	Number	Power	А	В	С	D	Е
7/16 DIN (f)	2 x 7/16 DIN (f)	SPF 716.716.02	4 kW	793	810	1603	□ 40	150
7/16 DIN (f)	3 x 7/16 DIN (f)	SPF 716.716.03	4 kW	793	810	1603	□ 40	150
7/16 DIN (f)	4 x 7/16 DIN (f)	SPF 716.716.04	4 kW	793	810	1603	□ 40	150
7/8EIA (f)	2 x 7/16 DIN (f)	SPF 78.716.02	5 kW	806	810	1616	□ 40	150
7/8EIA (f)	3 x 7/16 DIN (f)	SPF 78.716.03	5 kW	806	810	1616	□ 40	150
7/8EIA (f)	4 x 7/16 DIN (f)	SPF 78.716.04	5 kW	806	810	1616	□ 40	150
7/8EIA (f)	2 x 7/8EIA(f)	SPF 78.78.02	5 kW	806	810	1616	□ 40	133
7/8EIA (f)	3 x 7/8EIA(f)	SPF 78.78.03	5 kW	806	810	1616	□ 40	133
7/8EIA (f)	4 x 7/8EIA(f)	SPF 78.78.04	5 kW	806	810	1616	□ 40	133
1 5/8EIA (f)	2 x 7/8EIA(f)	SPF 158.78.02	10 kW	793	800	1593	□ 80	168
1 5/8EIA (f)	3 x 7/8EIA(f)	SPF 158.78.03	10 kW	793	800	1593	□ 80	168
1 5/8EIA (f)	4 x 7/8EIA(f)	SPF 158.78.04	10 kW	793	800	1593	□ 80	168



\* All dimensions shown are in milimeters.

\* Drawings not to scale.

Со	nectors	Ordering	Average		Dime	ensions (	(mm.)	
input	outputs	Number	Power	Α	В	С	D	E
7/16 DIN (f)	2 x 7/16 DIN (f)	SPV 716.716.02	3 kW	400	490	890	□ 40	150
7/16 DIN (f)	3 x 7/16 DIN (f)	SPV 716.716.03	3 kW	400	490	890	□ 40	150
7/16 DIN (f)	4 x 7/16 DIN (f)	SPV 716.716.04	3 kW	400	490	890	□ 40	150
7/8EIA (f)	2 x 7/16 DIN (f)	SPV 78.716.02	4 kW	413	490	903	□ 40	150
7/8EIA (f)	3 x 7/16 DIN (f)	SPV 78.716.03	4 kW	413	490	903	□ 40	150
7/8EIA (f)	4 x 7/16 DIN (f)	SPV 78.716.04	4 kW	413	490	903	□ 40	150
7/8EIA (f)	2 x 7/8EIA(f)	SPV 78.78.02	4 kW	413	490	903	□ 40	133
7/8EIA (f)	3 x 7/8EIA(f)	SPV 78.78.03	4 kW	413	490	903	□ 40	133
7/8EIA (f)	4 x 7/8EIA(f)	SPV 78.78.04	4 kW	413	490	903	□ 40	133
1 5/8EIA (f)	2 x 7/8EIA(f)	SPV 158.78.02	8 kW	397	490	887	□ 80	168
1 5/8EIA (f)	3 x 7/8EIA(f)	SPV 158.78.03	8 kW	397	490	887	□ 80	168
1 5/8EIA (f)	4 x 7/8EIA(f)	SPV 158.78.04	8 kW	397	490	887	□ 80	168

VHF Power Splitters (174 - 230 MHz):

## UHF Power Splitters (470 - 860 MHz):

Conectors		Ordering	Average		Dime	ensions (	mm.)	
input	outputs	Number	Power	Α	В	С	D	Е
7/16 DIN (f)	2 x 7/16 DIN (f)	SPU 716.716.02	0.8 kW	257	170	427	□ 40	150
7/16 DIN (f)	3 x 7/16 DIN (f)	SPU 716.716.03	0.8 kW	412	243	655	□ 40	150
7/16 DIN (f)	4 x 7/16 DIN (f)	SPU 716.716.04	0.8 kW	412	243	655	□ 40	150
7/8EIA (f)	2 x 7/16 DIN (f)	SPU 78.716.02	1 kW	287	170	457	□ 40	150
7/8EIA (f)	3 x 7/16 DIN (f)	SPU 78.716.03	1 kW	442	243	685	□ 40	150
7/8EIA (f)	4 x 7/16 DIN (f)	SPU 78.716.04	1 kW	442	243	685	□ 40	150
7/8EIA (f)	2 x 7/8EIA(f)	SPU 78.78.02	1 kW	270	170	440	□ 40	133
7/8EIA (f)	3 x 7/8EIA(f)	SPU 78.78.03	1 kW	426	242	668	□ 40	133
7/8EIA (f)	4 x 7/8EIA(f)	SPU 78.78.04	1 kW	426	242	668	□ 40	133
1 5/8EIA (f)	2 x 7/8EIA(f)	SPU 158.78.02	5 kW	258	176	434	□ 80	168
1 5/8EIA (f)	3 x 7/8EIA(f)	SPU 158.78.03	5 kW	413	243	656	□ 80	168
1 5/8EIA (f)	4 x 7/8EIA(f)	SPU 158.78.04	5 kW	413	243	656	□ 80	168



\* All dimensions shown are in milimeters.

\* Drawings not to scale.



# FM band-pass double cavity filter (1 kW)

model	connector terminal	max power (input)
FI FM NF.11	N (female)	500 W
FI FM 716.13	7/16" DIN (female)	1,0 KW
FI FM 78.15	7/8" EIA	2,5 KW

### Specifications

Frequency	87.5 - 108 MHz (tunable),
Impedance	50 Ohms,
Bandwidth	300 KHz
Temperature range	$-10^{\circ}$ - $+50^{\circ}$ C
Material used	aluminum cavity and silver plated
	brass tuning rods,
Finish	dyed with dark gray synthetic paint,
Weight	18 kg.

## Ask for information / quotation for multiplexer (2x), (3x), (4x).



\* All dimensions shown are in milimeters.

\* Drawings not to scale.



model	connector terminal	max power (input)
FI FM 158.11	1 5/8" EIA	5 KW
FI FM 158.21	1 5/8" EIA	10 KW

### Specifications

Frequency	87.5 - 108 MHz (tunable),
Bandwidth (-3dB)	800 KHz,
Impedance	50 Ohms,
Connector terminals	1 5/8"EIA swivel flange-female (input and output),
VSWR	less than 1.05,
Typical insertion loss	0.5 dB,
Cooling	air fan 80 W ; 230 VAC / 50 Hz
Temperature range	$-10^{\circ} - +50^{\circ} \text{ C}$
Material used	aluminum cavity and silver plated
	brass tuning rods,
Finish	dyed with dark gray synthetic paint,
Weight	80 kg.

## Ask for information / quotation for multiplexer (2x), (3x), (4x).





\* All dimensions shown are in milimeters.

\* Drawings not to scale.

# Model FI U 716.51

### Specifications

Frequency	470 - 860 MHz (tunable),
Impedance	50 Ohms,
Connector terminals	7/16 DIN - female (input and output),
Power (input)	0.8 kW. Max,
Bandwidth	8 MHz,
Temperature range	$-5^{\circ} - +50^{\circ} C$
Material used	brass cavity and silver plated brass
	tuning rods,
Finish	dyed with dark gray synthetic paint
	after electrolytic bath,
Weight	6.5 kg.

## Ask for information / quotation for multiplexer (2x), (3x), (4x).



\* Drawings not to scale.







### Material :

- Resilient contacts are made of thermally treated CuBe and are silver or gold plated.
- Insulation are made of pure PTFE
- Center and outer conductor parts are made of copper alloy, silver-plated
- Outer metal parts are made of copper alloy, nickel-plated
- Gaskets are made of silicone rubber
- Hardware set are made of stainless steel

<u>Impedance</u> : 50  $\Omega$ 

Adapter interfaces	N		7/16 DIN		7/8"	1 5/8"	3 1/8"	4 1/16"	4 1/2
	male	female	male	female	EIA	EIA	EIA	EIA	EIA
7/8" EIA	AD 78.NM	AD 78.NF	AD 78.716M	AD 78.716F					
1 5/8" EIA	AD 158.NM	AD 158.NF	AD 158.716M	AD 158.716F	AD 158.78				
3 1/8" EIA	AD 318.NM	AD 318.NF			AD 318.78	AD 318.158			
4 1/16" EIA	AD 416.NM	AD 416.NF				AD 416.158	AD 416.318		
4 1/2" EIA	AD 412.NM	AD 412.NF				AD 412.158	AD 412.318	AD 412.416	
6 1/8" EIA	AD 618.NM	AD 618.NF					AD 618.318	AD 618.416	AD 618.412

## Straight Adapters

## **Multipoint adapters**

Adapt	er interfaces	Ordering number
Input	Output	ordering number
7/8" EIA	2 x N (F)	MPAD 78.N.2
7/8" EIA	3 x N (F)	MPAD 78.N.3
7/8" EIA	4 x N (F)	MPAD 78.N.4
7/8" EIA	2 x 7/16 DIN (F)	MPAD 78.716.2
7/8" EIA	3 x 7/16 DIN (F)	MPAD 78.716.3
7/8" EIA	4 x 7/16 DIN (F)	MPAD 78.716.4
1 5/8 EIA	2 x 7/8 EIA	MPAD 158.78.2
1 5/8 EIA	3 x 7/8 EIA	MPAD 158.78.3
1 5/8 EIA	4 x 7/8 EIA	MPAD 158.78.4



\* All dimensions shown are in milimeters.

\* Drawings not to scale.



<u>General information</u> : All connectors for foam dielectric cables feature a self-flaring design .Careful tolerance control during manufacture minimizes imperfections and provides low VSWR performance.These connectors can be easily and quickly attached with ordinary hand tools.

Connectors for air dielectric cables are characterized by very low loses. These connectors have excellent electrical values and provide outstanding performance for the most demanding applications.

Material :

- Resilient contacts are made of thermally treated CuBe and are silver or gold plated.
- Insulation are made of pure PTFE
- Center and outer conductor parts are made of copper alloy, silver-plated
- Outer metal parts are made of copper alloy, nickel-plated
- Gaskets are made of silicone rubber and are used to prevent moisture and water penetration

- Hardware set are made of stainless steel

<u>Impedance</u> : 50  $\Omega$ 

<u>VSWR</u>: less than 1.03

**Connectors** 

Frequency range : 0-1000 Mhz



\* All dimensions shown are in milimeters.

\* Drawings not to scale.

## Connectors

Coaxial	cables	1/2 "	RFS	1/2 " A	ndrew		
Conne	ector	Cellflex(Foam)	Heliflex(Air)	LDF4-50A(Foam)	H IA = 50(A ir)		
interf	aces	LCF12-50	HCA12-50	LDF4-50A(F0alli)	HJ4-50(Air)		
N	male	CO R NM.12.01	CO R NM.12.11	CO A NM.12.21	CO A NM.12.31		
1	female	CO R NF.12.03	CO R NF.12.13	CO A NF.12.23	CO A NF.12.33		
7/16" male		CO RM 716.12.04	CO RM 716.12.14	CO AM 716.12.24	CO AM 716.12.34		
DIN	female	CO RF 716.12.06	CO RF 716.12.16	CO AF 716.12.26	CO AF 716.12.36		
7/8"	EIA	CO R 78.12.08	CO R 78.12.18	CO A 78.12.28	CO A 78.12.38		
Coaxial	cables	7/8 "	' RFS	7/8 " A	Indrew		
Conne	ector	Cellflex(Foam)	Heliflex(Air)	I DEE 504/Ecom)			
interf	aces	LCF78-50A	HCA 78-50	LDF5-50A(Foam)	HJ5-50(Air)		
N	male	CO R NM.78.01	CO R NM.78.11	CO A NM.78.21	CO A NM.78.31		
11	female	CO R NF.78.03	CO R NF.78.13	CO A NF.78.23	CO A NF.78.33		
7/16"	male	CO RM 716.78.04	CO RM 716.78.14	CO AM 716.78.24	CO AM 716.78.34		
DIN	female	CO RF 716.78.06	CO RF 716.78.16	CO AF 716.78.26	CO AF 716.78.36		
7/8" EIA		CO R 78.78.08	CO R 78.78.18	CO A 78.78.28	CO A 78.78.38		
1 5/8" EIA		CO R 158.78.09	CO R 158.78.19	CO A 158.78.29	CO A 158.78.39		
Coaxial	cables	1 5/8	" RFS	1 5/8 " Andrew			
Conne	ector	Cellflex(Foam)	Heliflex(Air)	LDF7-50A(Foam)	HJ7-50(Air)		
interf	aces	LCF158-50A	HCA 158-50		1137-30(All)		
7/8"	EIA	CO R 78.158.01	CO R 78.158.11	CO A 78.158.28	CO A 78.158.38		
1 5/8"	EIA	CO R 158.158.03	CO R 158.158.13	CO A 158.158.21	CO A 158.158.31		
3 1/8"	EIA	CO R 318.158.04	CO R 318.158.14	CO A 318.158.24	CO A 318.158.34		
Coaxial	cables	3 1/8 " RFS	3 " Andrew	4 1/8 " RFS	4 " Andrew		
Conne	ector	Heliflex(Air)	HJ8-50B(Air)	Heliflex(Air)	HJ11-50(Air)		
interf	aces	HCA 318-50	1130-30D(All)	HCA418-50	11311-30(All)		
3 1/8"	EIA	CO R 318.318.01	CO A 318.3.21	CO R 318.418.11	CO A 318.4.31		
4 1/8"	EIA	CO R 418.318.03	CO A 418.3.23	CO R 418.418.13	CO A 418.4.33		
Coaxial	cables	RG 213		RG 217			
Connector							
7/16" male			I	CO RGM 716.217			
7/16"	male	CO RGM 716.213		001/01/110.21/			
7/16" DIN	male female	CO RGM 716.213 CO RGF 716.213		CO RGF 716.217			

### CUSTOM DESIGNING AND MANUFACTURING OF ANY RF CONNECTOR FOR ANY CABLE SIZE IS AVAILABLE BY REQUEST



\* All dimensions shown are in milimeters.

\* Drawings not to scale.





	copper rigid line												
		outer co	onductor		inner conductor					cut back dimensions			
line	A	A B		(	C D		_						
size	dia.	tol.	dia.	tol.	dia.	tol.	dia.	tol.	E	F	G	Н	
7/8	22.22	□0.06	19.94	□0.06	8.66	□0.05	7.39	□0.05	12.7	8.7	4	8.7	
1 5/8	41.27	□0.07	38.78	□0.07	16.87	□0.06	14.93	□0.06	15.8	11.1	4.7	11.1	
3 1/8	79.4	□0.12	76.88	□0.12	33.4	□0.07	31.26	□0.07	23.4	17	6.4	17	
4 1/2	106	□0.15	103	□0.15	44.7	□0.1	42.8	□0.08	23.4	18	5.4	18	
6 1/8	155.6	□0.2	151.9	□0.2	66	□0.1	64	□0.1	32.5	25.4	7.1	25.4	



\* All dimensions shown are in milimeters. \* Drawings not to scale.

# Engineering





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# Engineering



50 ohms - EIA Standard Terminals RS-225

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\* Drawings not to scale.

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