

## Signal conditioning

# 1.8 GHz cable simulators FM/FF

**technetix**

- Cable simulators ranging from 3 dB to 18 dB
- Frequency range from 5 -1800 MHz
- Connectors conform to IEC 61169 standard
- Brass tube housing
- Backwards compatible with legacy network frequencies



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### Overview

Technetix' CS18 cable simulators offer dB variants from 3 dB to 18 dB with a frequency range of 5 MHz to 1800 MHz. The cable simulators compensate for the differential frequency signal and power loss across the length of a cable by simulating the effect of the signal loss, therefore equalizing the signals of the higher and lower frequencies. The cable simulators are backwards compatible with legacy networks.

Insertion loss

Frequency	CS18 SHS 3DB			CS18 SHS 6DB			CS18 SHS 9DB			CS18 SHS 12DB			CS18 SHS 15DB			CS18 SHS 18DB		
	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max
5		0.2	0.5		0.2	0.5		0.2	0.5		0.2	0.5		0.2	0.5		0.2	0.5
1006	1.5	1.8	2.1	3.1	3.4	3.7	4.7	5.0	5.3	6.3	6.7	7.1	7.7	8.2	8.7	9.7	10.2	10.7
1218	1.8	2.1	2.4	3.9	4.2	4.5	5.7	6.0	6.3	7.7	8.1	8.5	9.3	9.8	10.3	11.4	11.9	12.4
1800	2.5	3.0	3.5	5.5	6.0	6.5	8.5	9.0	9.5	11.5	12	12.5	14.2	15.0	15.8	17.0	18.0	19.0

Electrical specifications

Parameter	Frequency	Min	Typ	Max	Units
Frequency range		5		1800	MHz
Impedance			75		Ohm
Return loss	3, 6, 9, 12 dB versions	5-1800	13	16	dB
	15, 18 dB versions	5-1800	12	16	dB

Environmental specifications

Parameter	Standard
IP rating	IPx4

Mechanical specifications

Parameter	
Housing material	Brass
Connector Construction	Male to Female F-type
Connectors	Compliant to EN 61169-24
Dimensions	12.5 x 41.0 mm
Weight	17 grams

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**Ordering information**

Item number	Item code	Description
19013756	CS18 SHS 3DB	CABLE SIMULATOR SHS 3DB SLOPE
19013757	CS18 SHS 6DB	CABLE SIMULATOR SHS 6DB SLOPE
19013758	CS18 SHS 9DB	CABLE SIMULATOR SHS 9DB SLOPE
19013759	CS18 SHS 12DB	CABLE SIMULATOR SHS 12DB SLOPE
19013760	CS18 SHS 15DB	CABLE SIMULATOR SHS 15DB SLOPE
19013761	CS18 SHS 18DB	CABLE SIMULATOR SHS 18DB SLOPE