

ARRIS STARLINE Accessories

SCS- Starline Cable Simulator

FEATURES

- 750 MHz, 870 MHz, or 1 GHz cable simulation
- Ergonomics—installation and removal of accessory without tool or removal of chassis cover
- 16 dB return loss (minimum)
- FCC and CENELEC approved



PRODUCT OVERVIEW

The ARRIS STARLINE Cable Simulators, model SCS-*, are used in place of fixed forward equalizers in systems where: 1) the amplifiers are located close together, 2) there are large amounts of flat loss from passive components, or 3) it is necessary to compensate for reverse cable tilt. The cable simulators are available in 1 dB steps from 1 to 10 dB, and fit in the same location as the STARLINE Forward Equalizers, model SFE-*-*.

Ergonomics

Ergonomics add to the ease of use for the STARLINE Cable Simulator, model SCS-*. This “ease of use” is achieved by implementing a plastic shell with guides that allow easy installation and removal through the chassis cover. All of the ARRIS field-installed components are easily accessible through the chassis cover and can be installed and removed by a “gloved hand” without a tool.

SPECIFICATIONS

Passband	50 – 1003 MHz (see chart below)
dB of Cable Simulation from 50 to 750 MHz	1 - 10 dB , in 1 dB steps (see chart below)
Flatness	
50 to 750 MHz	+/- 0.2 dB
50 to 870 MHz	+/- 0.25 dB
870 to 1003 MHz	+ 1.0 / - 0.2 dB
Return Loss (minimum)	- 16.0 dB
Insertion Loss (@ 50 MHz) (maximum)	-1.5 dB

SCS-* SLOPE CHART

SCS-*	1	2	3	4	5	6	7	8	9	10
Frequency										
40 MHz	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4
45 MHz	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
50 MHz	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 MHz	-0.1	-0.2	-0.2	-0.3	-0.4	-0.4	-0.5	-0.6	-0.7	-0.7
108 MHz	-0.1	-0.3	-0.4	-0.5	-0.6	-0.8	-0.9	-1.0	-1.2	-1.3
150 MHz	-0.2	-0.5	-0.7	-0.9	-1.2	-1.4	-1.6	-1.9	-2.1	-2.3
211 MHz	-0.3	-0.7	-1.0	-1.4	-1.7	-2.1	-2.4	-2.8	-3.1	-3.5
250 MHz	-0.4	-0.8	-1.2	-1.7	-2.1	-2.5	-2.9	-3.3	-3.7	-4.1
300 MHz	-0.5	-1.0	-1.5	-1.9	-2.4	-2.9	-3.4	-3.9	-4.4	-4.9
350 MHz	-0.6	-1.1	-1.7	-2.2	-2.8	-3.3	-3.9	-4.4	-5.0	-5.5
400 MHz	-0.6	-1.2	-1.8	-2.5	-3.1	-3.7	-4.3	-4.9	-5.5	-6.2
450 MHz	-0.7	-1.4	-2.0	-2.7	-3.4	-4.1	-4.7	-5.4	-6.1	-6.8
550 MHz	-0.8	-1.6	-2.4	-3.2	-4.0	-4.8	-5.5	-6.3	-7.1	-7.9
750 MHz	-1.0	-2.0	-3.0	-4.0	-5.0	-6.0	-7.0	-8.0	-9.0	-10.0
870 MHz	-1.1	-2.2	-3.3	-4.4	-5.5	-6.7	-7.8	-8.9	-10.0	-11.1
1003 MHz	-1.2	-2.5	-3.7	-4.9	-6.2	-7.4	-8.7	-9.9	-11.1	-12.4
50 MHz loss (typical)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0

RELATED PRODUCTS

FFT Full Feature Taps	Optical Patch Cords
FFE Feederline Equalizers	Optical Passives
CHP Chassis	Installation Services

Note: Specifications are subject to change without notice.

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