Cables & Connectors

Flame Retardant Halogen Free Double Shielded Cable

09/02/17 v6



SR1-029-FRZH-B (Flame retardant CS29)

Ultra low loss double shielded cable for cellular frequencies Zero halogen UV stabilised flame retardant outer jacket

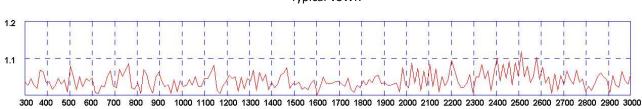
Panorama Antennas' CS29 cable is a high quality double shielded 5mm(0.2") Ø cable. CS29 offers both copper braid and aluminium foil shielding which significantly reduces signal attenuation especially at higher frequencies. The stranded copper centre conductor and cellular polyethene dielectric ensures that the cable offers excellent flexibility.

 $\ensuremath{\mathsf{CS29}}$ is an ideal choice for VHF, UHF, cellular, WLAN and other applications up to 3GHz.

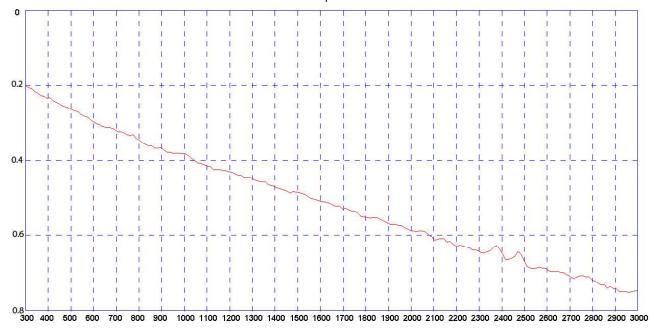
The FRZH range of cables are supplied with a flame retardant halogen free jacket for safety critical applications

Electrical Data

Typical VSWR



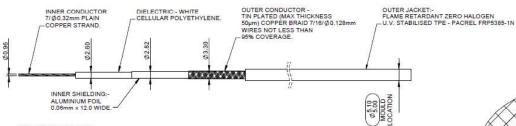
Attenuation per m of cable



Technical Drawing



TEXT TO BE PRINTED IN WHITE ON CABLE SHEATH AT REGULAR INTERVALS AS SHOWN.

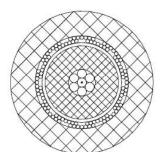


SPECIFICATION VALUES:-

- CHARACTERISTIC IMPEDANCE: 50Ω ±2Ω AT 1GHz 50Ω ±4Ω AT 2GHz
- ATTENUATION:-NO GREATER THAN 4dB PER 10m AT 1 GHz. NO GREATER THAN 5.5dB PER 10m AT 2GHz.
- CABLE CONFORMS TO THE FOLLOWING STANDARDS:-IEC 60332-1 IEC 60754-1/2 IEC 1034
- BRAID RESISTANCE PER 10m LESS THAN 160mΩ.
- SHIELDING EFFECTIVENESS ACCORDING TO IEC81196 TO BE <-85dB @ 30 - 1000 MHz

NOTES:-

- ALL PARTS MUST BE RoHS COMPLIANT AND MUST NOT CONTAIN ANY SUBSTANCES OF VERY HIGH CONCERN (SVHCs) LISTED UNDER REACH OR POLY-AROMATIC HYDROCARBONS (PAHs). OR PERSISTENT ORGANIC POLLUTANTS (POPs) CONTROLLED BY THE STOCKHOLM CONVENTION.
- 2. PRINTING MUST BE DURABLE AND ENVIRONMENTALLY RESISTANT.
- SAMPLES MUST BE APPROVED BY PANORAMA ANTENNAS Q.C. BEFORE COMMENCING PRODUCTION.
 - IN ORDER TO ASSURE COMPLIANCE WITH THE U.S.A. DODD-FRANK ACT (SECTION 1502) TIN, GOLD, TANTALUM AND TUNGSTEN CONTAINED WITHIN PANORAMA ANTENNAS PRODUCTS MUST BE FULLY TRACEABLE TO A SMELTER APPROVED BY THE CONFLICT FREE SOURCING INITIATIVE (www.conflictfreesmelter.org).



CROSS SECTION THROUGH CABLE SCALE 12.5:1

Part No.		
		SR1-029-FRZH-B
Impedance		$50\Omega\pm2\Omega$ at 1GHz $50\Omega\pm4\Omega$ at 2GHz
Loss No Greater Than		2.2dB per 10m at 400MHz 4dB per 10m at 1GHz 5.5dB per 10m at 2GHz
Braid Resistance		Less than 160m Ω per 10m
Shielding Effectiveness		<-95dB according to IEC 61196-1 at 400MHz
Outer Jacket	Material	UV Stabilised Flame Retardant Flexible Thermoplastic
	Colour	Black
	Diameter (mm)	5.10 (0.2")
Outer Conductor	Material	Tin plated Copper Braid
	Wire Coverage	No less than 95%
	Diameter (mm)	3.3 (0.12")
Inner Shielding	Material	Aluminium foil
	Diameter (mm)	2.82 (0.11")
Dielectric	Material	White Cellular Polythene
	Diameter (mm)	2.60 (0.10")
Inner Conductor	Material	Plain Copper Strand
	Diameter (mm)	0.96 (0.03")
Operating Temp (°C)		-35°/+80°C (-31°/176°F)
Flame Retardance Specifications		ECE 118.01 paragraph 6.2.5 (according to EN 6722:2006 paragraph 12)
Voltage Withstand		1000 VDC
Jacket Spark		3000 V RMS

