

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard and rel

Material Properties Cable:

Properties	Value Unit					
Cable	RG-316/U					
Nominal Outer Cable Diameter	2.49	mm				

Material Properties Connector 1:

Insulator Material	PTFE	
Insulator Color	White	
Center Contact Material	Brass	
Center Contact Plating	Gold, min. 0.76µm over Nickel	
Body Material	Brass	
Body Plating	Gold, min. 0.076µm over Nickel	
Coupling Nut Material	Brass	
Coupling Nut Plating	Gold, min. 0.076µm over Nickel	
Retention Ring (C Ring) Material	Stainless Steel	
Retention Ring (C Ring) Plating	Passivated	
Gasket Material	Silicone	
Gasket Color	Red	
Ferrule Material	Brass	
Ferrule Plating	Gold, min. 0.076µm over Nickel	
Heat Shrink Tube Material	PE	
Heat Shrink Tube Color	Black	

Material Properties Connector 2:

Insulator Material	PTFE					
Insulator Color	White					
Center Contact Material	Brass					
Center Contact Plating	Gold, min. 0.76µm over Nickel					
Body Material	Brass					
Body Plating	Gold, min. 0.076µm over Nickel					

Coupling Nut Material	Brass
Coupling Nut Plating	Gold, min. 0.076µm over Nickel
Retention Ring (C Ring) Material	Stainless Steel
Retention Ring (C Ring) Plating	Passivated
Gasket Material	Silicone
Gasket Color	Red
Ferrule Material	Brass
Ferrule Plating	Gold, min. 0.076µm over Nickel
Heat Shrink Tube Material	PE
Heat Shrink Tube Color	Black

Kind Properties:

Interface	MIL-STD-348
Cable Type	Flexible
Cable Shielding	Braid
Connector Type 1	SMA
Gender 1	Plug
Orientation Type 1	Straight
Connector Type 2	SMA
Gender 2	Plug
Orientation Type 2	Straight

General Information:

Operating Temperature	-55 °C up to +165 °C
Compliance	RoHS

Electrical Properties:

1	Properties	Test conditions		Value	Unit	Tol.
1	Impedance	DC~6 GHz	Ζ	50	Ω	
	Frequency Range		f	DC~6 GHz		

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Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions		CREATED JTS	CHECKED DaSc		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		
Max-Eyth-Str. 1 74638 Waldenburg Germany		DESCRIPTION	night Plug	to SM	IA Straight				
Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		Plug on F CXASY	lexible C	able R	G316 WR-	ORDER CODE	50353	80505	
=			REVISION 001.000	status Valid		DATE (YYYY-MM-DD 2018-03-19		BUSINESS UNIT eiCan	PAGE 2/5
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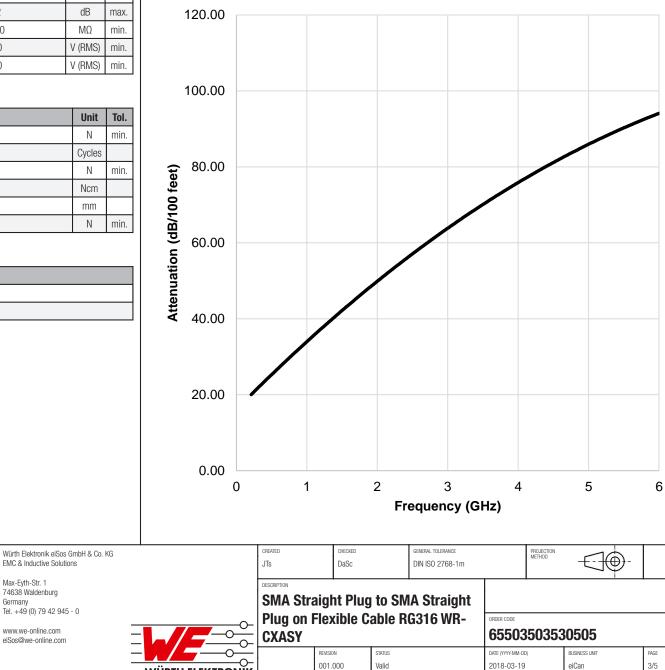
/SWR DC~6 GHz			1.3		max.
Insertion Loss	DC~6 GHz		1.2	dB	max.
Insulation Resistance 500 V (DC) in 120 sec.		R _{ISO}	5000	MΩ	min.
Withstanding Voltage	thstanding Voltage 500 V (AC) in 60 sec.		750	V (RMS)	min.
Working Voltage			250	V (RMS)	min.

Mechanical Properties:

Properties	Value	Unit	Tol.
Center Contact Retention (Axial)	26.7	Ν	min.
Mating Cycle	500	Cycles	
Coupling Nut Retention	267	Ν	min.
Recommended Mating Torque	57	Ncm	
Min. Bend Radius	12.7	mm	
Cable Retention	44.5	Ν	min.

Packaging Properties:

Properties		Value
Packaging		Bag
Packaging Unit	Qty.	10



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WÜRTH ELEKTRONIK

Max-Eyth-Str. 1

Germany

Typical Attenuation:

Cautions and Warnings:

The following conditions apply to all goods within the product services of the Connectors of Würth Elektronik eiSos GmbH & Co. KG:

General:

- This electronic component is designed and developed with the intention for use in general electronics equipment.
- Before incorporating the components into any equipment in the field such as military, aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are especially required or if there is possibility of direct damage or injury to human body, Wurth Elektronik must be asked for a written approval.
- In addition, even electronic component in general electronic equipment, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed by the user before usage.
- The connector is designed and manufactured to be used within the datasheet specified values.
- Do not use the connector outside the datasheet specifications.
- Prevent any damage or scratches on the connector, especially on the actuator.
- Direct mechanical impact to the product shall be prevented (e.g overlapping of the PCB's).
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the authority of the customer. All technical specification for standard products do also apply to customer specific products.
- Würth Elektronik products are qualified according to international standards which are listed into each product reliability report.All
 products characteristics are therefore given according to results obtained throughout these detailed test protocols. May any product
 characteristic be qualified by the customer, out of given Würth Elektronik specifications, Würth Elektronik cannot ensure its validity and
 sustainability over time.
- The Connectors are designed to be used along with Würth Elektronik counterparts and tools. Würth Elektronik cannot insure the reliability of these components while being used with other products.

Product Specific:

Soldering:

- The solder profile must comply with the Würth Elektronik technical soldering specification, otherwise this will void the warranty.
- Other soldering methods are not verified and have to be validated by the customer at his own risk.

Cleaning and Washing:

- Parts are not constructed for washing, so washing can cause malfunction afterwards.
- Cleaning agent that are used to clean the customer applications might damage or change the characteristics of the component, body, pins and termination.

- · Please do not submerse our washable products into water or cleaning agents or put them in locations exposed to water completely.
- When cleaning by hand (brushing), please do not use excessive force on our connectors to avoid malfunction afterwards, because customer could deform function relevant areas.
- We recommended a solution without organic acid (preserve the plating against corrosion) volatile, without residues and compatible with the plastic.
- We recommend to perform tests and to let a part in immersion in the solution 8 to 12 hours and see if there is a degradation.

Storage Conditions:

 The Connectors are considered MSL1 into closed original packaging and are not subject to storage time limits regarding the moisture sensivity but all products shall be used before the end of the period of 12 months based on the products date code, if not 100% solderability can't be warranted.

Handling:

- Do not repeatedly operate the connector with excessive force. It may damage or deforms the contact dome which results in malfunction.
- In the case a product requires particular handling precautions, in addition to the general recommendations mentioned here before, these
 will appear on the product datasheet.

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Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com					ORDER CODE 65503503530505			
		1.000	status Valid		DATE (YYYY-MM-DE 2018-03-19	·	BUSINESS UNIT eiCan	PAGE 4/5

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Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications. In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component. Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.

6. Product Life Cycle

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered. The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions		CREATED JTS	CHECKED DaSc		GENERAL TOLERANCE DIN ISO 2768-1m	_	PROJECTION METHOD		
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0	SMA Straight Plug to SMA Straight Plug on Flexible Cable RG316 WR-				ORDER CODE				
www.we-online.com eiSos@we-online.com		CXASY				65503503530505			
			REVISION 001.000	status Valid		DATE (YYYY-MM-DE 2018-03-19	,	BUSINESS UNIT eiCan	PAGE 5/5

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