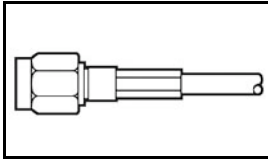


## 1051655-1 Product Details

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**1051655-1**

TE Internal Number:  
1051655-1

 Active

### SMA/QMA RF Connectors

 Always EU RoHS/ELV Compliant (Statement of Compliance)

#### Product Highlights:

- Applies To Coaxial Cable
- Connector - RF
- RF Connector Type = SMA
- Plug
- Without Snap-Lock

[View all Features](#)

### Quick Links

- ▶ [Pricing & Availability](#)
- ▶ [Search for Tooling](#)
- ▶ [Product Feature Selector](#)
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## Documentation & Additional Information

### Product Drawings:

- [SMA STRAIGHT CABLE PLUG CRIMP ATTACHMENT](#) (PDF, English)

### Catalog Pages/Data Sheets:

- None Available

### Product Specifications:

- None Available

### Application Specifications:

- None Available

### Instruction Sheets:

- [SMA Cable Plug Crimp Attachment 1311062-1, 1051654-1...](#) (PDF, English)

### CAD Files:

- None Available

[List all Documents](#)

### Related Products:

- [Tooling](#)

## Product Features (Please use the Product Drawing for all design activity)

### Product Type Features:

- [Product Type](#) = Connector - RF
- RF Connector Type = SMA
- [Gender](#) = Plug
- [Retractable Collar](#) = Without

### Mechanical Attachment:

- [Panel Mount Retention](#) = Without
- [Safety Wire Holes](#) = Without

### Electrical Characteristics:

- Frequency = 12.4 GHz (Max.)

### Termination Features:

- [Coaxial Cable Termination Type](#) = Crimp
- [Crimp Type](#) = Hex

### Dimensions:

- [Length \(mm \[in\]\)](#) = 30.15 [1.187]

### Contact Features:

- [Center Contact](#) = With
- [Center Contact Crimp Setting](#) = 4

### Configuration Features:

- [Snap-Lock](#) = Without
- [Coaxial Cable Type \(RG/U or Mfg.\)](#) = 316

### Industry Standards:

- [Government/Industry Qualification](#) = No
- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Not relevant for lead free process
- [RoHS/ELV Compliance History](#) = Always was RoHS compliant

### Conditions for Usage:

- [Applies To](#) = Coaxial Cable

**Body Features:**

- [Body Style](#) = Straight
- [Body Material](#) = Stainless Steel
- [Body Finish](#) = Passivated

**Other:**

- Brand = AMP

**Corporate Information**

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**Quick Links**

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[Product Cross Reference](#)  
[Documents & Drawings](#)  
[Product Compliance Support Center](#)  
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**Customer Support**

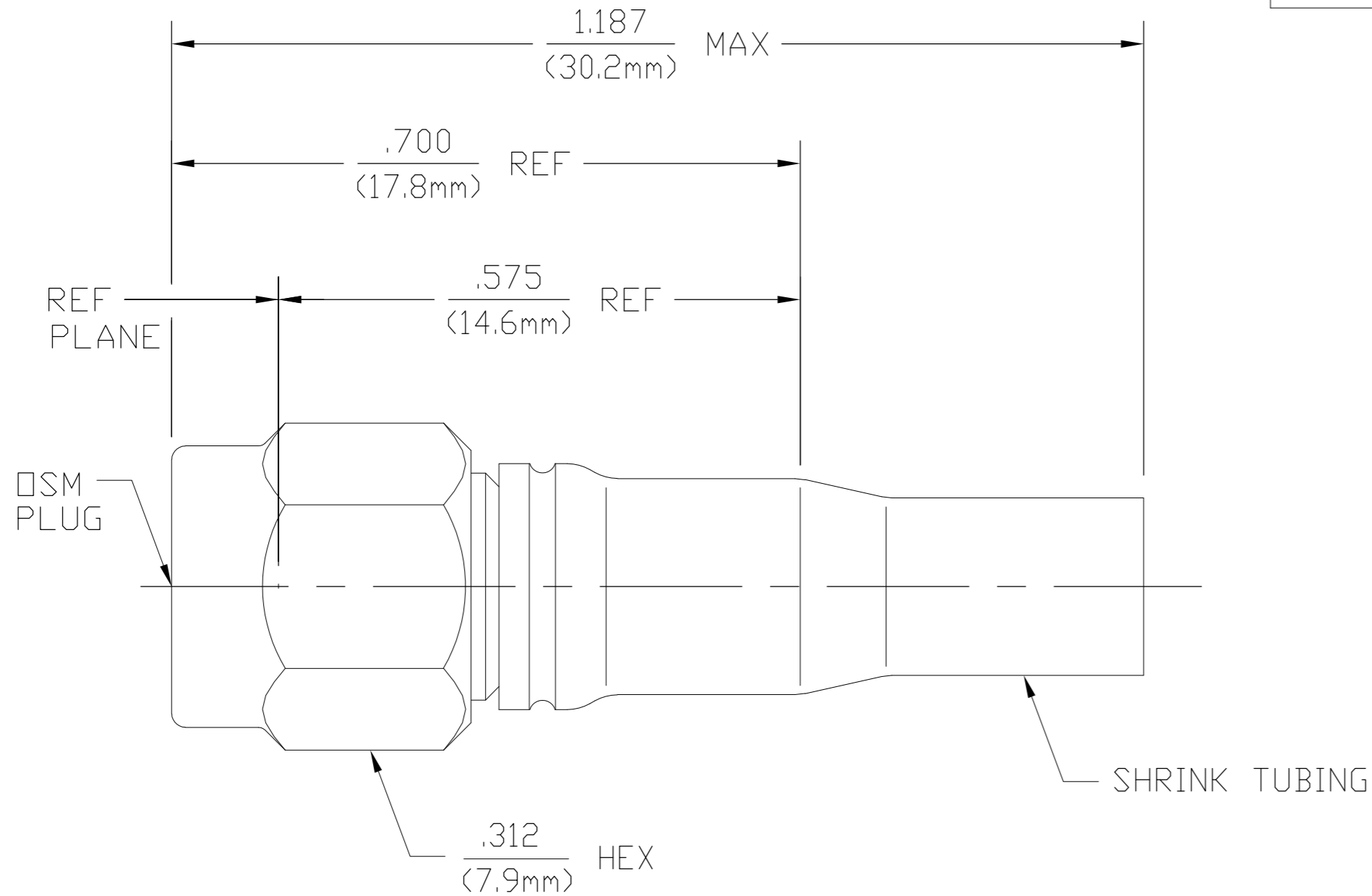
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**Keep Me Informed**

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DESIGNED FOR USE WITH RG-188/U CABLE	
CABLE ENTRY DIAMETER MINIMUM	
FERRULE	.125
HOUSING	.067
CONTACT	.021

LOC	DIST	REVISIONS					
AJ	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		B		REV PER ECO 07-004710	3/12/2007	DW	KW



1051655-1  
PART NUMBER

ELECTRICAL	MECHANICAL	ENVIRONMENTAL
Nominal Impedance (Ohms) <u>50</u>	Interface Dimensions MIL-STD-348A, Fig. 310.1	TEMPERATURE RATING <u>-65°C TO +165°C</u>
Frequency Range (GHz) <u>DC to 12.4</u>	Recommended Mating Torque <u>7 to 10 in-lbs</u>	Vibration MIL-STD-202, Method 204, Condition B.
Volt Rating (VRMS MAX) @ Sea Level <u>250</u>	Force to Engage and Disengage (in-lbs MAX) <u>2.0</u>	Shock MIL-STD-202, Method 213, Condition I.
VSWR <u>1.15 ± .015F (GHz)</u>	Center Contact Captivation Axial (lbs) <u>N/A</u>	Thermal Shock MIL-STD-202, Method 107, Condition B.
Insertion Loss (dB MAX) <u>.15 @ 6 GHz</u>	Radial (in-oz) <u>N/A</u>	Moisture Resistance MIL-STD-202, Method 106
RF Leakage (dB MIN) <u>-60 @ 2 - 3 GHz</u>	Cable Retention Axial Force (lbs) <u>20.0</u>	Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray
Corona, 70,000 Ft (VRMS MIN) <u>375</u>	Torque (in-lbs) <u>N/A</u>	
Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level <u>750</u>	Coupling Nut Retention (lbs MIN) <u>60</u>	
Contact Resistance (Milliohms MAX) Center Contact <u>3.0</u>	Proof Torque (in-lbs MIN) <u>15</u>	
Outer Contact <u>2.0</u>	Weight (Grams) <u>2.9</u>	
Cable to Housing <u>0.5</u>		
RF High Potential @ Sea Level (VRMS MIN @ 5 MHz) <u>1,000</u>		
I.R.(Megohms MIN) <u>5,000</u>		

.XXX = in  
XX.X = mm (REF)

COMPONENT	MATERIAL	FINISH
HOUSING COUPLING NUT	STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303	PASSIVATE PER QQ-P-35
DIELECTRIC	PTFE FLUOROCARBON PER ASTM-D-1457	N/A
CENTER CONTACT	BERYLLIUM COPPER PER ASTM-B-196 OR ASTM-B-197, ALLOY C17300, CONDITION H OR BRASS PER ASTM-B-16	GOLD PLATE PER MIL-G-45204
RETAINING RING	BERYLLIUM COPPER PER ASTM-B-194, ALLOY C17200, CONDITION H	N/A
GASKET	SILICONE RUBBER PER ZZ-R-765	N/A
SHRINK TUBING	HEAT SHRINKABLE POLYOLEFIN COMPOUND MIL-I-23053/4	N/A
FERRULE	COPPER OR BRASS ALLOY ROCKWELL F65 MAXIMUM	GOLD PLATE PER MIL-G-45204

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN DRF 10/17/76	Tyco Electronics Corporation Harrisburg, PA 17105-3608
DIMENSIONS: INCHES		CHK RBG 4/6/77	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD -	NAME
0 PLC ± -		PRODUCT SPEC -	SMA STRAIGHT CABLE PLUG CRIMP ATTACHMENT
1 PLC ± -		APPLICATION SPEC -	
2 PLC ± -		WEIGHT -	SIZE
3 PLC ± .005		CUSTOMER DRAWING	CAGE CODE
4 PLC ± -		SCALE 5:1	DRAWING NO
ANGLES ± 1°		SHEET 1 of 1	RESTRICTED TO
FINISH -		REV B	