TAOGLAS®



Datasheet

Taoglas Waterproof SMA Connecter Series

Part No:
SMAMRA.SS.GO.STL.wpf
SMAMRA.DK.GO.STL.wpf
SMAMRA.VV.GO.STL.wpf

Description:

Stainless Steel, Waterproof SMA(M)RA for RG-174LL Cable

Stainless Steel, Waterproof SMA(M)RA for RG-174/316 Cables

Stainless Steel, Waterproof SMA(M)RA for TGC-1.5DS Cable

Features:

Right-Angel SMA(M)

Finish: Stainless Steel

IP67 Waterproof Connector (w/o Mating)

720HRs Salt Spray Level

-65°C to +165°C Temperature Range

Dimensions: 22 x 5 x 17.6 mm

RoHS & Reach Compliant

1. Introduction 3
2. Specifications 4
3. Mechanical Drawing 5
4. Packaging 6

Changelog 7

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Ireland & USA
ISO 9001:2015
Certified

Taiwan
ISO 9001:2015
Certified

IATF16949

1. Introduction



The Taoglas SMAMRA series of stainless steel, waterproof right-angle SMA(M) connectors is engineered for reliable RF connectivity in extremely harsh environments. Featuring IP67 protection without requiring a mated connection, 720-hour salt spray resistance, and ultra-wide operating temperature range from -65°C to +165°C, the connectors provide robust protection and reliable performance against water ingress, corrosion, and extreme temperatures.

Designed with an SMA interface compliant with MIL-STD-348, the SMAMRA series supports RG-174LL, RG-174/316, and TGC-1.5DS coaxial cables and combines a compact 22 × 5 x 17.6 mm form factor with durable stainless-steel construction and reliable electrical performance. It is ideally suited for outdoor, industrial, transportation, marine, and other harsh-environment applications, and is fully compliant with RoHS and REACH directives.

SMA(M)RA Stainless Steel, Waterproof Connector SKU's and Configurations:

- SMAMRA.SS.GO.STL.wpf SMA(M)RA, FOR RG174LL, Stainless Steel, Waterproof
- SMAMRA.DK.GO.STL.wpf SMA(M)RA, FOR RG174/316, Stainless Steel, Waterproof
- SMAMRA.VV.GO.STL.wpf SMA(M)RA, FOR TGC-1.5DS, Stainless Steel, Waterproof

For further information please contact your regional Taoglas customer support team.

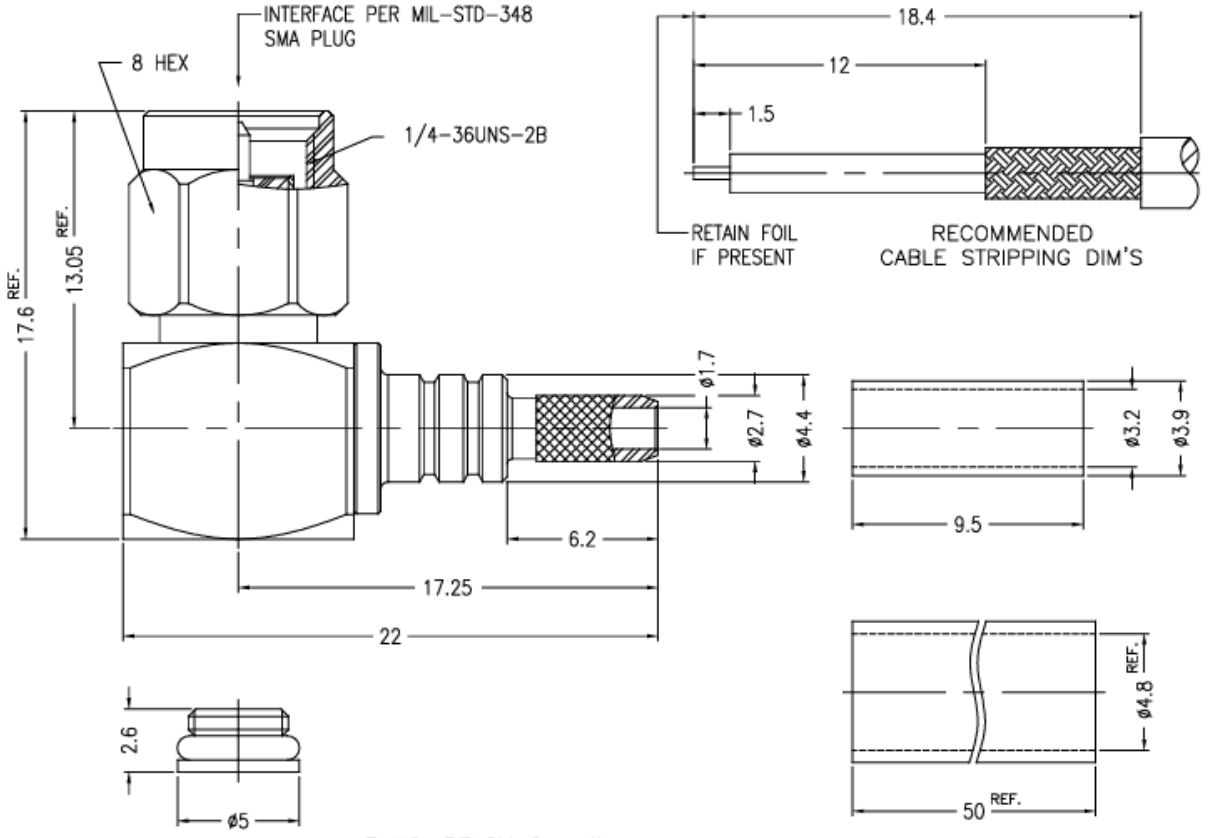
2. Specifications

Electrical	
Impedance	50Ω
Dielectric Withstanding Voltage	1000 VRMS, Min
VSWR	1.3 Max. @ DC - 3GHz 1.5 Max. @ 3 - 8GHz
Insulation Resistance	5000 MΩ Min.
Contact Resistance	Center Contact : 3 mΩ Max
	Outer Contact : 2.5 mΩ Max.
Mechanical	
Dimensions	22 x 5 x 17.6 mm
Body Material	Stainless Steel SUS 316L
Interface	MIL-STD-348
SMA Torque force limit	17.28 kg-cm
Mating Cycle	500 cycles
Environmental	
Waterproof Rating	IPX7 w/o mating part
Temperature Range	-65°C to +165°C
Salt Spray	720 Hours

3. Mechanical Drawing (Units: mm)

3.1 SMAMRA.SS.GO.STL.wpf

ISO NO.: EDW.007911
STATE: Release
NOTES:
1.STAINLESS STEEL SUS 316L
2.PASSIVATED
3.SILICONE RUBBER
4.GOLD PL. 3 MIN. THICK OVER NICKEL PL. 50 MIN. THICK OVER COPPER PL. 50 MIN. THICK
5.ELECTROLESS NICKEL(HIGH-P) PL. 500 MIN. THICK
6.NICKEL PL. 100 MIN. THICK OVER COPPER PL. 50 MIN. THICK
7.CRIMPED FERRULE HEX CRIMP SIZE .128"
8.CONTACT PIN TO SOLDER
9.FINISH (PLATING THICKNESS IN MICRO-INCHES)



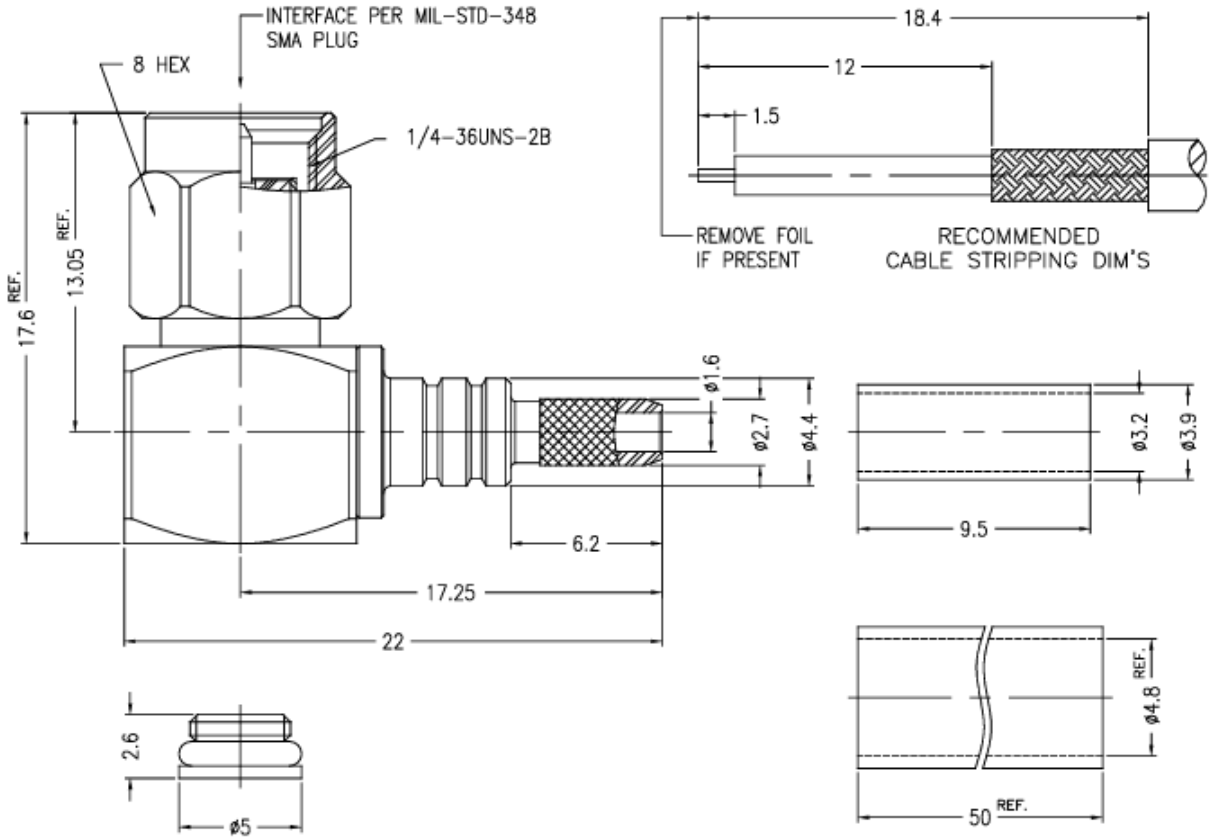
RoHS, REACH Compliance

1. CRIMPED FERRULE
   HEX CRIMP SIZE .128"
2. CONTACT PIN TO SOLDER

APPROVED BY: Chozen	TAOGLAS. TW Design Centre		
CHECK BY: Aaron	This drawing and its inherent design concepts are property of Taoglas. Not to be copied or given to third parties without the written consent of Taoglas.		
DRAWN BY: Aron Yan			
DATE: 2026/09/24	TITLE : SMA(M)RA, FOR RG174LL, Stainless Steel, Waterproof		
UNLESS OTHERWISE SPECFIED TOLERANCES ON: XX:±0.5 X:±0.3 .X±0.2 .XX±0.1 .XXX±0.05	PART NO. : SMAMRA.SS.GO.STL.wpf		
THIRD ANGLE PROJECTION	UNIT: mm	SCALE: 1:2.5	PAGES: 1/1	REV. D01

3.2 SMAMRA.DK.GO.STL.wpf

ISO NO.: EDW.007909
STATE: Release
NOTES:
1.STAINLESS STEEL SUS 316L
2.PASSIVATED
3.SILICONE RUBBER
4.GOLD PL. 3 MIN. THICK OVER NICKEL PL. 50 MIN. THICK OVER COPPER PL. 50 MIN. THICK
5.ELECTROLESS NICKEL(HIGH-P) PL. 500 MIN. THICK
6.NICKEL PL. 100 MIN. THICK OVER COPPER PL. 50 MIN. THICK
7.CRIMPED FERRULE HEX CRIMP SIZE .128"
8.CONTACT PIN TO SOLDER
9.FINISH (PLATING THICKNESS IN MICRO-INCHES)



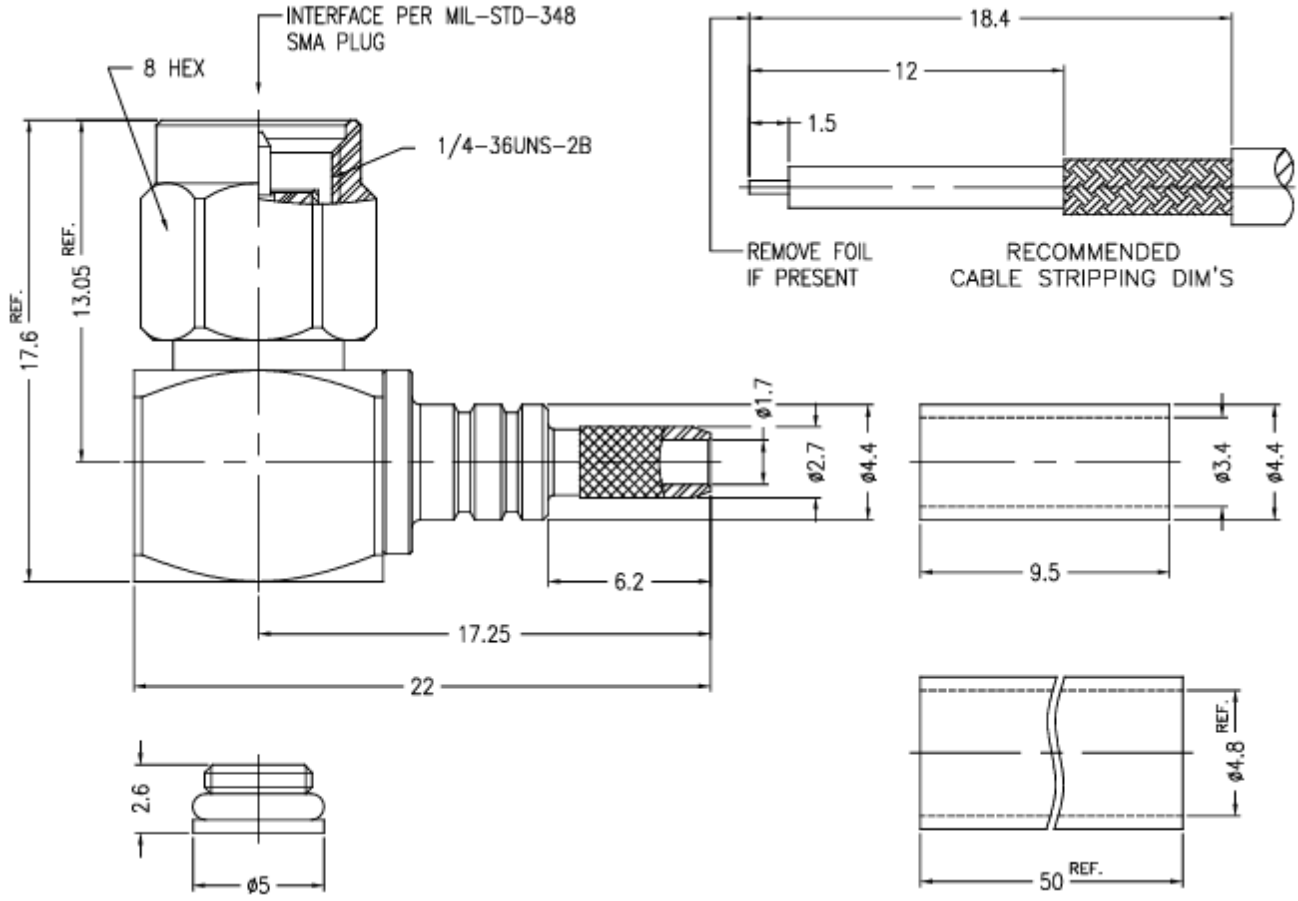
RoHS, REACH Compliance

1. CRIMPED FERRULE HEX CRIMP SIZE .128"
2. CONTACT PIN TO SOLDER

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CHECK BY: Aaron				
DRAWN BY: Aron Yan				
DATE: 2026/09/24	TITLE : SMA(M)RA, FOR RG174/316, Stainless Steel, Waterproof			
UNLESS OTHERWISE SPECIFIED TOLERANCES ON: XX±0.5 X.X±0.3 .XX±0.2 .XXX±0.1 .XXXX±0.05	PART NO. : SMAMRA.DK.GO.STL.wpf			
THIRD ANGLE PROJECTION	UNIT: mm	SCALE: 1:2.5	PAGES: 1/1	REV. D01

3.3 SMAMRA.VV.GO.STL.wpf

ISO NO.: EDW.007913
STATE: Release
NOTES:
1.STAINLESS STEEL SUS 316L
2.PASSIVATED
3.SILICONE RUBBER
4.GOLD PL. 3 MIN. THICK OVER NICKEL PL. 50 MIN. THICK OVER COPPER PL. 50 MIN. THICK
5.ELECTROLESS NICKEL(HIGH-P) PL. 500 MIN. THICK
6.NICKEL PL. 100 MIN. THICK OVER COPPER PL. 50 MIN. THICK
7.CRIMPED FERRULE HEX CRIMP SIZE .128"
8.CONTACT PIN TO SOLDER
9.FINISH (PLATING THICKNESS IN MICRO-INCHES)

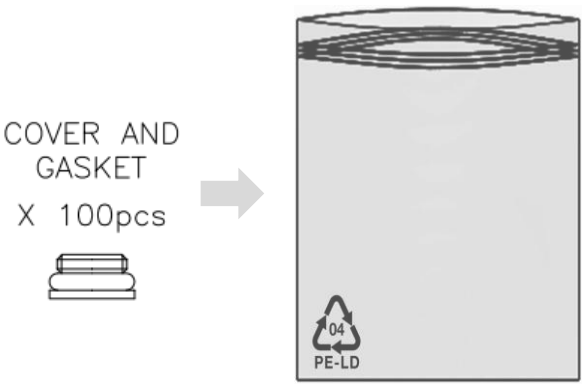


RoHS, REACH Compliance

1. CRIMPED FERRULE HEX CRIMP SIZE .151"
2. CONTACT PIN TO SOLDER

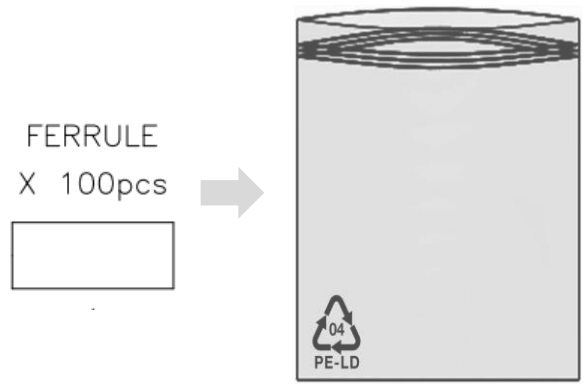
APPROVED BY: Chozen	TAOGLAS. TW Design Centre. This drawing and its inherent design concepts are property of Taoglas. Not to be copied or given to third parties without the written consent of Taoglas.				
CHECK BY: Aaron					
DRAWN BY: Aron Yan					
DATE: 2026/09/24	TITLE : SMA(M)RA, FOR TGC-1.5DS, Stainless Steel, Waterproof				
UNLESS OTHERWISE SPECIFIED TOLERANCES ON: XX±0.5, X±0.3, .X±0.2, .XX±0.1, .XXX±0.05	PART NO. : SMAMRA.VV.GO.STL.wpf				
THIRD ANGLE PROJECTION	UNIT: mm	SCALE: 1:2.5	PAGES: 1/1	REV. D01	

4. Packaging



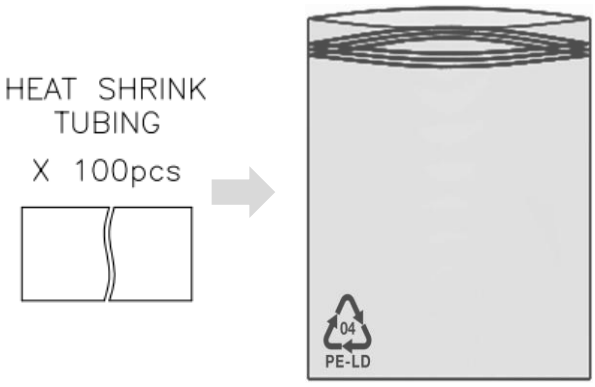
☑ 100 PCS / Zipper bag

☑ Zipper bag (mm): 85x110



☑ 100 PCS / Zipper bag

☑ Zipper bag (mm): 85x110



☑ 100 PCS / Zipper bag

☑ Zipper bag (mm): 102x153

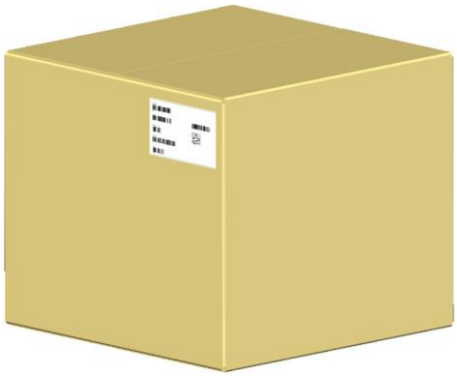


☑ 100 PCS / PE bag

☑ PE Bag(mm): 153x229

☑ Weight (Kg): 0.9 ±3%

☑ SPQ Label



☑ 1000 PCS / Carton

☑ Carton(mm): 320x280x220

☑ Weight (Kg): 10 ±3%

☑ Carton Label

Changelog for the datasheet

SPE-25-8-324 – SMAMRA.XX.GO.STL.wpf

Revision: A (Original First Release)	
Date:	2025-27-11
Notes:	Initial release
Author:	Conor McGrath

Previous Revisions

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