

# World RF Coax Connector Market 2023

*Forecasts by Connector Series thru 2027*  
*Technology, Standards, & Accessories*  
*RF Cable Assemblies*

**Research Report P-780-23**  
**January 2023**



# World RF Coax Connector Market 2023

Report No: P-780-2023  
January 2023

To cover the significant changes of the last several years, Bishop & Associates, Inc. is pleased to announce the release of its newest, technically intensive, 13-chapter, 434-page research report on the World RF Coax Connector Market. Advancing technologies and expanded applications make this a challenging growth time for the RF coax connector industry. The report presents the latest sales results and forecasts, plus details on the newest coax connector product developments from the smallest MHF\*, to higher frequency 1.35, 0.8-, and 0.6-mm connectors, and industry standards including IEEE-287-2021 and MIL-Spec revisions, plus application discussions, and primary suppliers. The report was delayed and revised so that effects of the COVID-19 pandemic, advances in potential sub-THz for 6G, and the current effects of inflation and component costs could be included.

This extensive encyclopedia-type volume provides an in-depth review and forecast of the RF coax connector industry. Sales results and forecasts are provided for RF coax connector families and product types for total world and by region. Coax connector sales are recapped for 2020 and 2021 with a forecast for 2022 and 2027F. Projected usage and new product technology in the sub-THz range includes information on waveguides and WG-to-coax plus review of RF cable assemblies.

Projections include a discussion on how IoT including implementation of 5G and 6G concepts, plus VITA and SOSA, EICA/EIA, IEEE, updated MIL-specs, etc., will support new programs, plus trends for miniaturization, COTS, SATCOM, higher frequencies, higher RF power needs, broader bandwidths, and international shifts, will affect markets, both overall and for specific connector types. With a forecasted CAGR of **over 6%** from 2022 to 2027, growth of the world RF coax connector market is projected to exceed many other connector types.



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This report's results and forecasts are based upon actual manufacturers' data augmented by related historical knowledge and expert inputs. In 2021, *RF coax connectors* were one of the world's top five connector categories, offering a significant business potential for those knowing market(s) direction and product details.

Sales of electronic connectors continue to advance and match industry needs. The RF coax connector market is increasing in importance as the number of wireless enabled devices, and the amount of data consumed expands at an almost unfathomable rate. This report examines which RF coax interconnect products are expected to achieve growth, versus those that may be static, or in decline. In addition to worldwide and regional marketplace sales data, supportive chapters on connector technology and specific product families, plus their primary suppliers, are included to provide an understanding of the coax connector industry, the products involved, how they are used, and what affects their sales.

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A sampling of the RF coax connector types included in this report is shown below.

Primary RF Family	Connector Series (Family Grouping)
Ultra-Microminiature	U.FL, MHF, X.FL, UMCC, AMC, UMP, SW*
Microminiature	MCX, MMCX, QSL, SuperMini 0.9 mm, MOEBIUS
Subminiature	QMA, SMA, SSMA, SMB, SSMB, SMC, SSMC, SMD, FAKRA, mini-FAKRA, 1.0/2.3, 1.5/3.5, 1.6/5.6
Miniature	BNC/Mini BNC/HD-BNC, UHF/Mini-UHF, MHF, SHV, F, G, 2.2/5
Medium	TNC/RP-TNC, N, QN, HN, ZMA, SMPKey, 4.3/10, 4.1/9.5 Mini-DIN, NEX10, QLI
Large	DIN 7/16, 13/30, L, C, SC, LC, LT
Precision	7mm, 3.5mm, 2.92mm, 2.40mm, 1.85mm, 1.35mm, 1mm, 0.9mm, 0.8mm, 0.6mm
Blindmate	BMA (OSP), BMMA (OSSP), SBMA, BZ, BMZ
Board-to-Board	SMP (GPO), SMPM, SMP3, IMP, MMBX, MBX, SSBB, Compression Types

The level of numerical detail included in this report includes:

## 2020, 2021, 2022F and 2027F RF Coax Connector Sales by Region With Percent Change and Five-Year CAGR

Region	2020	2021	Percent Change	2022F	Percent Change	2027F	5-Year CAGR
North America	\$XXX.X	\$XXX.X	YY.Y%	\$XXX.X	-YY.Y%	\$X,XXX.X	YY.Y%
Europe	\$XXX.X	\$XXX.X	-Y.Y%	\$XXX.X	-YY.Y%	\$X,XXX.X	YY.Y%
Japan	\$XXX.X	\$XXX.X	-Y.Y%	\$XXX.X	-YY.Y%	\$XXX.X	YY.Y%
China	\$X,XXX.X	\$X,XXX.X	-YY.Y%	\$XXX.X	-YY.Y%	\$X,XXX.X	YY.Y%
Asia Pacific	\$XXX.X	\$XXX.X	Y.Y%	\$XXX.X	-YY.Y%	\$XXX.X	YY.Y%
ROW	\$XXX.X	\$XXX.X	-Y.Y%	\$XXX.X	-YY.Y%	\$XXX.X	YY.Y%
<b>Total World</b>	<b>\$X,XXX.X</b>	<b>\$X,XXX.X</b>	<b>-Y.Y%</b>	<b>\$X,XXX.X</b>	<b>-YY.Y%</b>	<b>\$X,XXX.X</b>	<b>YY.Y%</b>

\$ Millions

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## 2021 and 2022F RF Coax Connectors By Region with Percent Change

Product Type	Europe			Japan		
	2021	2022F	% Chg.	2021	2022F	% Chg.
<b>Large Coax</b>						
DIN 7/16 (incl. Low PIM)	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
LC/LT, C/SC Series	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Triaxial	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Others & Custom Lrg RF (incl. Sizes 8-12 for Multi-Port), etc.	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
<b>Total Large</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>
<b>Precision Coax</b>						
1.0mm W (110 GHz)	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
1.85mm V (65 GHz)	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
2.4mm (50 GHz)	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
2.9mm (K) (40 GHz)	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
3.5 mm	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
7.0 mm / APC-7 (18 GHz)	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Proprietary (Custom)	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Other Precision: 1.35mm, 0.8mm, 0.6mm, Size 20 Multi-Port, etc.	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
<b>Total Precision</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>
<b>Blind-mate Coax</b>						
GPO/SMP/SMPM/SMP3/SMMP Types	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Others, BZ, BMZ, BMA, BMMA, SFB, etc.	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
<b>Total Blindmate</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>
<b>Between Series Adaptors</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>
Other Adaptors, Inline, T, etc.	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Other Special Design	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Attenuators, Terminations, Dummy Loads, Shorting Caps	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
<b>Total RF Coax Connectors</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>

\$ Millions

## 2022F and 2027F Connector Sales by RF Product Family by Region With Five-Year CAGR

RF Product Family	North America			Europe		
	2022F	2027F	CAGR	2022F	2027F	CAGR
Ultraminiature Coax	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Board-to-Board Coax	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Microminiature Coax	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Subminiature Coax	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Miniature Coax	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Medium Coax	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
DIN Coax	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Large Coax	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Precision Coax	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Blind-mate Coax	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
Accessories, Adaptors, & Customs	\$XX.X	\$XX.X	Y.Y%	\$XX.X	\$XX.X	Y.Y%
<b>Total RF Coax Connectors</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>	<b>\$XX.X</b>	<b>\$XX.X</b>	<b>Y.Y%</b>

\$ Millions

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Orient Microwave Corp  
Pasternack Enterprises  
Precision Connector Inc. (PCI)  
Radiall S.A.  
RF Industries Ltd  
Rosenberger Hochfrequenztechnik GmbH & Co. KG  
Samtec, Inc  
San-tron, Inc  
SGMC Microwave  
Signal Microwave, LLC  
Smiths Interconnect  
Southwest Microwave, Inc  
Spectrum Elektrotechnik GmbH  
Spinner GmbH  
TE Connectivity  
Telegartner Group  
The Phoenix Company of Chicago  
W.L. Gore & Associates, Inc  
Winchester Electronic Corp  
Withwave Company, Ltd



# World RF Coax Connector Market 2023

## Chapter 13 – User “Helps” and Suggestions

- Introduction
- Manufacturer's Data
- International Standards
- User Concerns
- Information Sources
- Connector Do's and Don'ts
- Storing Connectors
- Connector Torque
- “Stuck” Connectors
- Cal Kit Connector

- Cleaning Coax Connectors
- Connector Savers
- Proper Use of Connectors and Test Equipment
- Proper Mating of RF/Microwave Connectors
- Background
- Mating Procedure
- Proper Mounting of Flanged Connectors
- Raised Grounding Ring Requires 360° Grounding
- Connector to Waveguide Transitions
- Right-Angle Transitions
- In-Line Transitions



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Mr. Arthur Visser  
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[Email Arthur Visser](mailto:Arthur.Visser@bishopinc.com)

## What's New ?

Bishop & Associates has recently completed several new research reports about the worldwide connector industry. A table of contents for each report can be found at <https://store.bishopinc.com>.

- **Report P-780-23**      **World RF Coax Connector Market (January 2023) NEW**
- **Report F-2022-02**      **Connector Industry Forecast (November 2022) NEW**
- **Report M-1200-22**      **Military Ground Vehicle Market for Connectors (October 2022) NEW**
- **Report P-799-22**      **World Cable Assembly Market (September 2022) NEW**
- **Report M-121-22**      **2022 Top 100 Connector Manufacturers (August 2022) NEW**
- **Report P-675-22**      **Copper and Fiber Connectivity in the Data Center (July 2022) NEW**
- **Report C-122-22**      **2022 Connector Industry Yearbook (July 2022) NEW**
- **Report T-800-22**      **2022 North American Cable Assembly Manufacturers (May 2022) NEW**
- **Report M-1010-22**      **World Automotive Connector Market (April 2022) NEW**
- **Report M-700-22**      **World Connector Market Handbook (March 2022)**
- **Report P-420-22**      **IC Sockets – Systems & Connector Forecast 2020-2030 (January 2022)**
- **Report P-520-21**      **The World I/O Rectangular Connector Market 2021 (October 2021)**
- **Report P-430-21**      **World Circular Connector Market 2021 (September 2021)**
- **Report M-310-21**      **Instrumentation Market for Connectors (June 2021)**
- **Report P-410-21**      **Computer Server Market Trends and Connector Use 2020 – 2030 (May 2021)**
- **Report M-607-21**      **World Industrial Market for Connectors (April 2021)**
- **Report M-510-21**      **World Telecom Connector Market 2020-2025 (January 2021)**

### THE BISHOP REPORT - CONNECTOR INDUSTRY YEARBOOK

An annual corporate subscription to [THE BISHOP REPORT](#) (12 issues) is available for \$2,950, which includes an unlimited number of subscribers and one PDF version of the *Connector Industry Yearbook* report (normally \$1,500). *The Bishop Report* subscription includes access, through [Bishopinc.com](https://store.bishopinc.com), to prior issues of The Bishop Report, 30-40 yearly News Briefs, Industry Financial Benchmarks, and various connector industry indices.

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