



ETL Systems

New technologies
in RF distribution

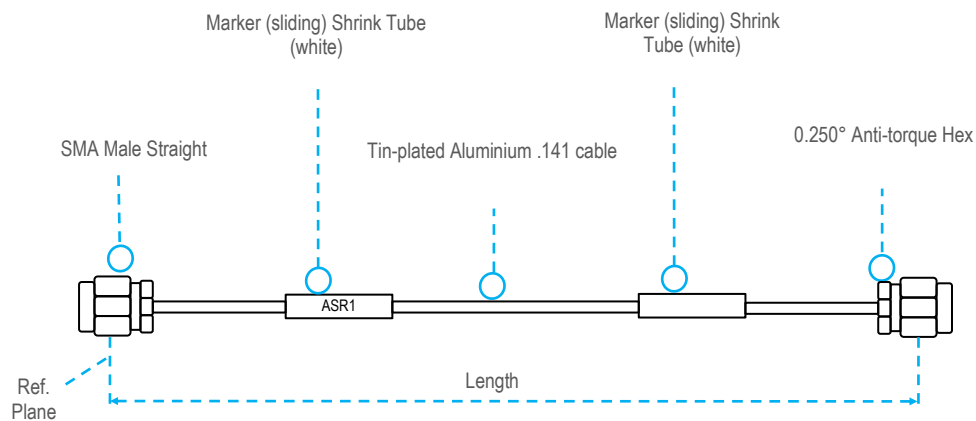
ASR1-xxx-520005-S4S4

Coaxial Cable Assembly

Semi-Rigid, 0.141 Reformable Aluminium, SMA Male Connectors

- DC-18 GHz
- Some Stock Availability
- Wide choice of Lengths
- Reformable
- Anti-Torque Connectors
- Weight Saving
- Cost Effective

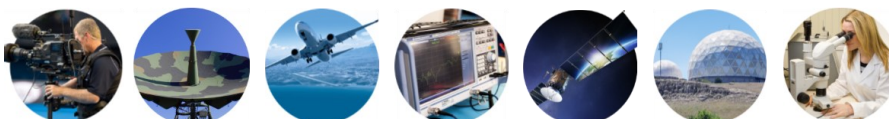
ETL's ASR series of coaxial cable assemblies provides the microwave system designer with a versatile solution to equipment and sub-assembly cabling without the need for detailed design of semi-rigids. With a solid tin-plated aluminium outer conductor the cable can be hand formed in situ while maintaining performance essentially equivalent to formed copper semi-rigid of equivalent size and the high resistance to work-hardening allows for subsequent bend adjustments.



Options:

The following are also available but not necessarily from stock (please contact us):

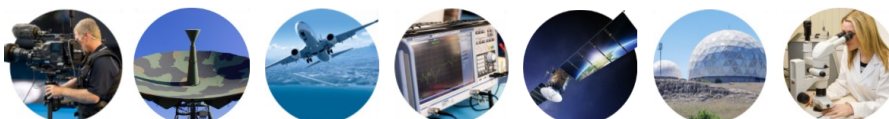
- Alternative Connectors – SMA Female, Type N, SMP, 2.92mm - Bulkhead, Panel Mount, Right Angle
- Custom Assembly Lengths
- Ident Sleeves, Outer FEP Jacket





General Specification	
Standard Lengths	2.0 to 60.0 inches
Length Increments	1.0 inches
Length Datum	Connector Reference Plane
Standard Connectors	SMA Male, Anti-torque, Stainless Steel to Mil-C-39012
Connector Interface	MIL-STD-348
Anti-torque hex	0.250 ins.
Impedance	50 ohms
Outer Conductor	Tin-plated Aluminium
Dielectric Material	PTFE
Centre Conductor Material	Silver Plated Copper-clad Steel
Insulation Resistance	1000 MegOhms min.
Withstand Voltage	1000 VRMS min.
Maximum CW Power	40 watts at 18 GHz
Maximum Peak Power	1250 watts
Velocity of Propagation	70% Nominal
Electrical Delay	120 picosec/inch
Shielding	100 dB min.
Minimum Bend Radius [at centre line]	0.15 ins. (3.8mm)
Operating Temp. Range	-65 to +105C
RoHS Compliant	Yes

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.





Performance specifications for different lengths - standard assemblies with SMA Male Connectors

EXAMPLE PART NUMBER	LENGTH (INCHES)	ATTENUATION (dB)				VSWR (:1)			
		2GHz	6GHz	12GHz	18GHz	2GHz	6GHz	12GHz	18GHz
ASR-003-520005-S4S4	3	0.12	0.20	0.28	0.37	1.10	1.17	1.20	1.30
ASR-004-520005-S4S4	4	0.13	0.23	0.32	0.43	1.10	1.17	1.20	1.30
ASR-005-520005-S4S4	5	0.15	0.25	0.37	0.48	1.10	1.17	1.20	1.30
ASR-006-520005-S4S4	6	0.16	0.28	0.41	0.54	1.10	1.17	1.20	1.30
ASR-007-520005-S4S4-	7	0.18	0.31	0.45	0.59	1.10	1.17	1.20	1.30
ASR-008-520005-S4S4	8	0.19	0.34	0.49	0.65	1.10	1.17	1.20	1.30
ASR-009-520005-S4S4	9	0.21	0.37	0.54	0.70	1.10	1.17	1.20	1.30
ASR-010-520005-S4S4	10	0.22	0.39	0.58	0.76	1.10	1.17	1.20	1.30
ASR-011-520005-S4S4	11	0.24	0.42	0.62	0.81	1.10	1.17	1.20	1.30
ASR-012-520005-S4S4	12	0.25	0.45	0.66	0.87	1.10	1.17	1.20	1.30
ASR-013-520005-S4S4	13	0.27	0.48	0.71	0.92	1.10	1.17	1.20	1.30
ASR-014-520005-S4S4	14	0.28	0.51	0.75	0.98	1.10	1.17	1.20	1.30
ASR-015-520005-S4S4	15	0.30	0.53	0.79	1.03	1.10	1.17	1.20	1.30
ASR-016-520005-S4S4	16	0.31	0.56	0.83	1.09	1.10	1.17	1.20	1.30
ASR-017-520005-S4S4	17	0.33	0.59	0.88	1.14	1.10	1.17	1.20	1.30
ASR-018-520005-S4S4	18	0.34	0.62	0.92	1.20	1.10	1.17	1.20	1.30
ASR-019-520005-S4S4	19	0.36	0.65	0.96	1.25	1.10	1.17	1.20	1.30
ASR-020-520005-S4S4	20	0.37	0.67	1.00	1.31	1.10	1.17	1.20	1.30
ASR-021-520005-S4S4	21	0.39	0.70	1.05	1.36	1.10	1.17	1.20	1.30
ASR-022-520005-S4S4	22	0.40	0.73	1.09	1.42	1.10	1.17	1.20	1.30
ASR-023-520005-S4S4	23	0.42	0.76	1.13	1.47	1.10	1.17	1.20	1.30
ASR-024-520005-S4S4	24	0.43	0.79	1.17	1.53	1.10	1.17	1.20	1.30
ASR-025-520005-S4S4	25	0.45	0.81	1.22	1.58	1.10	1.17	1.20	1.30
ASR-026-520005-S4S4	26	0.46	0.84	1.26	1.63	1.10	1.17	1.20	1.30
ASR-027-520005-S4S4	27	0.48	0.87	1.30	1.69	1.10	1.17	1.20	1.30
ASR-028-520005-S4S4	28	0.49	0.90	1.34	1.74	1.10	1.17	1.20	1.30
ASR-029-520005-S4S4	29	0.51	0.93	1.39	1.80	1.10	1.17	1.20	1.30
ASR-030-520005-S4S4	30	0.52	0.95	1.43	1.85	1.10	1.17	1.20	1.30
ASR-031-520005-S4S4	31	0.54	0.98	1.47	1.91	1.10	1.17	1.20	1.30
ASR-032-520005-S4S4	32	0.55	1.01	1.51	1.96	1.10	1.17	1.20	1.30
ASR-033-520005-S4S4	33	0.57	1.04	1.56	2.02	1.10	1.17	1.20	1.30
ASR-034-520005-S4S4	34	0.58	1.07	1.60	2.07	1.10	1.17	1.20	1.30
ASR-035-520005-S4S4	35	0.60	1.09	1.64	2.13	1.10	1.17	1.20	1.30
ASR-036-520005-S4S4	36	0.61	1.12	1.68	2.18	1.15	1.25	1.30	1.35
ASR-037-520005-S4S4	37	0.63	1.15	1.73	2.24	1.15	1.25	1.30	1.35
ASR-038-520005-S4S4	38	0.64	1.18	1.77	2.29	1.15	1.25	1.30	1.35
ASR-039-520005-S4S4	39	0.66	1.21	1.81	2.35	1.15	1.25	1.30	1.35
ASR-040-520005-S4S4	40	0.67	1.23	1.85	2.40	1.15	1.25	1.30	1.35
ASR-041-520005-S4S4	41	0.69	1.26	1.90	2.46	1.15	1.25	1.30	1.35
ASR-042-520005-S4S4	42	0.70	1.29	1.94	2.51	1.15	1.25	1.30	1.35
ASR-043-520005-S4S4	43	0.72	1.32	1.98	2.57	1.15	1.25	1.30	1.35
ASR-044-520005-S4S4	44	0.73	1.35	2.03	2.62	1.15	1.25	1.30	1.35
ASR-045-520005-S4S4	45	0.75	1.37	2.07	2.68	1.15	1.25	1.30	1.35
ASR-046-520005-S4S4	46	0.76	1.40	2.11	2.73	1.15	1.25	1.30	1.35
ASR-047-520005-S4S4	47	0.78	1.43	2.15	2.79	1.15	1.25	1.30	1.35
ASR-048-520005-S4S4	48	0.79	1.46	2.20	2.84	1.15	1.25	1.30	1.35
ASR-049-520005-S4S4	49	0.81	1.49	2.24	2.90	1.15	1.25	1.30	1.35
ASR-050-520005-S4S4	50	0.82	1.51	2.28	2.95	1.15	1.25	1.30	1.35
ASR-051-520005-S4S4	51	0.84	1.54	2.32	3.01	1.15	1.25	1.30	1.35
ASR-054-520005-S4S4	54	0.88	1.63	2.45	3.17	1.15	1.25	1.30	1.35
ASR-055-520005-S4S4	55	0.90	1.65	2.49	3.23	1.15	1.25	1.30	1.35
ASR-060-520005-S4S4	60	0.97	1.79	2.71	3.50	1.15	1.25	1.30	1.35

