



ETL Systems

New technologies
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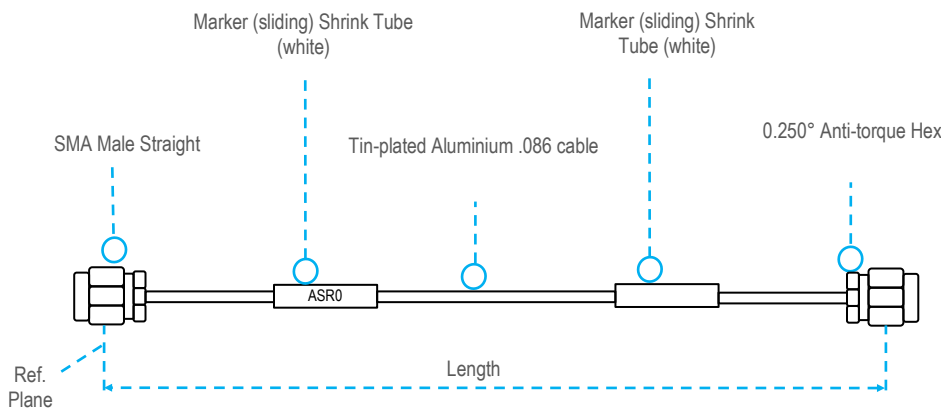
ASR0-xxx-520004-S4S4

Coaxial Cable Assembly

Semi-Rigid, 0.086 Reformable Aluminium, SMA Male Connectors

- Frequency DC-26.5 GHz
- STOCK Availability
- Wide Choice of Lengths
- Reformable
- Anti-Torque Connectors
- Weight Saving
- Very 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. The large range of STOCK lengths in standard assemblies will meet the requirements of most applications.



Part Numbering:
.086 Aluminium Reformable
Assemblies with SMA Male
Connectors

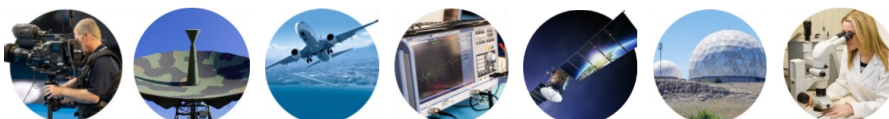
ASR0-xxx-520004 where xxx is the
length in inches.



Options:

The following are also available (please contact us):

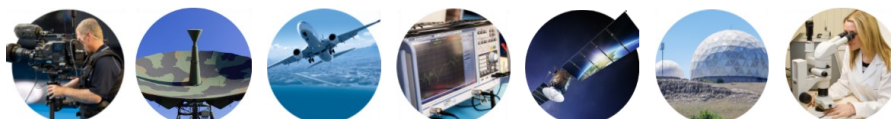
- Alternative Connectors - SMA Female, Type N, SMP, 2.92mm - Bulkhead, Panel Mount, Right Angle
- Custom Assembly Lengths
- Ident Sleeves, Outer FEP Jacket





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	18 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]	0.13 ins. (3.3mm)
Operating Temperature Range	-65 + 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	ATTENUATION (dB)				VSWR (:1)			
	(INCHES)	2GHz	6GHz	12GHz	18GHz	2GHz	6GHz	12GHz	18GHz
ASR0-003-520004-S4S4	3	0.15	0.25	0.36	0.46	1.10	1.17	1.20	1.30
ASR0-004-520004-S4S4	4	0.17	0.30	0.42	0.55	1.10	1.17	1.20	1.30
ASR0-005-520004-S4S4	5	0.20	0.34	0.49	0.64	1.10	1.17	1.20	1.30
ASR0-006-520004-S4S4	6	0.22	0.39	0.56	0.72	1.10	1.17	1.20	1.30
ASR0-007-520004-S4S4	7	0.25	0.43	0.63	0.81	1.10	1.17	1.20	1.30
ASR0-008-520004-S4S4	8	0.27	0.48	0.69	0.89	1.10	1.17	1.20	1.30
ASR0-009-520004-S4S4	9	0.30	0.52	0.76	0.98	1.10	1.17	1.20	1.30
ASR0-010-520004-S4S4	10	0.32	0.57	0.83	1.06	1.10	1.17	1.20	1.30
ASR0-011-520004-S4S4	11	0.35	0.62	0.90	1.15	1.10	1.17	1.20	1.30
ASR0-012-520004-S4S4	12	0.37	0.66	0.96	1.24	1.10	1.17	1.20	1.30
ASR0-013-520004-S4S4	13	0.40	0.71	1.03	1.32	1.10	1.17	1.20	1.30
ASR0-014-520004-S4S4	14	0.42	0.75	1.10	1.41	1.10	1.17	1.20	1.30
ASR0-015-520004-S4S4	15	0.45	0.80	1.17	1.49	1.10	1.17	1.20	1.30
ASR0-016-520004-S4S4	16	0.47	0.84	1.23	1.58	1.10	1.17	1.20	1.30
ASR0-017-520004-S4S4	17	0.50	0.89	1.30	1.66	1.10	1.17	1.20	1.30
ASR0-018-520004-S4S4	18	0.52	0.94	1.37	1.75	1.10	1.17	1.20	1.30
ASR0-019-520004-S4S4	19	0.55	0.98	1.44	1.83	1.10	1.17	1.20	1.30
ASR0-020-520004-S4S4	20	0.57	1.03	1.50	1.92	1.10	1.17	1.20	1.30
ASR0-021-520004-S4S4	21	0.60	1.07	1.57	2.01	1.10	1.17	1.20	1.30
ASR0-022-520004-S4S4	22	0.62	1.12	1.64	2.09	1.10	1.17	1.20	1.30
ASR0-023-520004-S4S4	23	0.65	1.16	1.71	2.18	1.10	1.17	1.20	1.30
ASR0-024-520004-S4S4	24	0.67	1.21	1.77	2.26	1.10	1.17	1.20	1.30
ASR0-025-520004-S4S4	25	0.70	1.25	1.84	2.35	1.10	1.17	1.20	1.30
ASR0-026-520004-S4S4	26	0.73	1.30	1.91	2.43	1.10	1.17	1.20	1.30
ASR0-027-520004-S4S4	27	0.75	1.35	1.98	2.52	1.10	1.17	1.20	1.30
ASR0-028-520004-S4S4	28	0.78	1.39	2.04	2.61	1.10	1.17	1.20	1.30
ASR0-029-520004-S4S4	29	0.80	1.44	2.11	2.69	1.10	1.17	1.20	1.30
ASR0-030-520004-S4S4	30	0.83	1.48	2.18	2.78	1.10	1.17	1.20	1.30
ASR0-031-520004-S4S4	31	0.85	1.53	2.25	2.86	1.10	1.17	1.20	1.30
ASR0-032-520004-S4S4	32	0.88	1.57	2.32	2.95	1.10	1.17	1.20	1.30
ASR0-033-520004-S4S4	33	0.90	1.62	2.38	3.03	1.10	1.17	1.20	1.30
ASR0-034-520004-S4S4	34	0.93	1.67	2.45	3.12	1.10	1.17	1.20	1.30
ASR0-035-520004-S4S4	35	0.95	1.71	2.52	3.21	1.10	1.17	1.20	1.30
ASR0-036-520004-S4S4	36	0.98	1.76	2.59	3.29	1.15	1.25	1.30	1.35
ASR0-037-520004-S4S4	37	1.00	1.80	2.65	3.38	1.15	1.25	1.30	1.35
ASR0-038-520004-S4S4	38	1.03	1.85	2.72	3.46	1.15	1.25	1.30	1.35
ASR0-039-520004-S4S4	39	1.05	1.89	2.79	3.55	1.15	1.25	1.30	1.35
ASR0-040-520004-S4S4	40	1.08	1.94	2.86	3.63	1.15	1.25	1.30	1.35
ASR0-041-520004-S4S4	41	1.10	1.98	2.92	3.72	1.15	1.25	1.30	1.35
ASR0-042-520004-S4S4	42	1.13	2.03	2.99	3.80	1.15	1.25	1.30	1.35
ASR0-043-520004-S4S4	43	1.15	2.08	3.06	3.89	1.15	1.25	1.30	1.35
ASR0-044-520004-S4S4	44	1.18	2.12	3.13	3.98	1.15	1.25	1.30	1.35
ASR0-045-520004-S4S4	45	1.20	2.17	3.19	4.06	1.15	1.25	1.30	1.35
ASR0-046-520004-S4S4	46	1.23	2.21	3.26	4.15	1.15	1.25	1.30	1.35
ASR0-047-520004-S4S4	47	1.25	2.26	3.33	4.23	1.15	1.25	1.30	1.35
ASR0-048-520004-S4S4	48	1.28	2.30	3.40	4.32	1.15	1.25	1.30	1.35

