



## Cable structure

The coax structure is identical for all sizes: inner conductor, foamed dielectric, outer conductor, outer jacket black. This assures the same connector plugs and clamps can always be used. The only difference between the various variants is the form of the opening of the outer conductor. These forms determine the relationship between the inner and outer conductors. Electrical characteristics, such as attenuation, coupling loss, reflection factor as well as environmental conditions (such as dust, salt, moisture, etc.) are influenced in this way. The optimum cable can then be determined from the knowledge of these parameters and the application data (reach, frequency range etc.). The technical differences can be seen from the data for the system loss and the 120 dB length. The outer sheath material is made of a black halogen-free and flame-resistant compound.

Designation	Nominal size	Outer Ø ca. mm	Weight kg/km	1 km system loss (dB)					120 dB-length (m)					Part no.
				450	900	1800 (MHz)	2200	2400	450	900	1800 (MHz)	2200	2400	
Corrugations, groups of apertures at large intervals														
	1/2"	15,0	290,0	129	155	195	210	216	830	560	350	310	295	800227
	5/8"	22,0	380,0	113	133	-	-	-	1300	900	-	-	-	800228
	7/8"	28,7	620,0	93	110	-	-	-	1965	1220	-	-	-	800229
	7/8"	28,7	620,0	100	114	150	-	-	1750	1150	650	-	-	800230
	1 1/4"	38,8	920,0	86	103	-	-	-	2580	1450	-	-	-	800231
	1 1/4"	38,8	920,0	90	100	144	-	-	2500	1630	710	-	-	800232
	1 5/8"	48,0	1200,0	92	97	120	-	-	2650	1850	1000	-	-	800233
Corrugations, groups of vertical slots at short intervals														
	1/2"	15,0	290,0	124	154	274	-	-	930	625	300	-	-	800234
	1/2"	15,0	290,0	126	160	289	324	349	900	600	270	235	220	800235
	5/8"	22,0	380,0	107	127	168	-	-	1340	930	570	-	-	800236
	5/8"	22,0	380,0	110	125	177	197	208	1265	915	490	425	440	800237
	7/8"	28,7	620,0	95	115	262	-	-	1780	1090	320	-	-	800238
	7/8"	28,7	620,0	101	113	166	190	212	1650	1135	560	460	395	800239
	1 1/4"	38,8	920,0	90	103	163	-	-	2300	1440	610	-	-	800240
	1 1/4"	38,8	920,0	96	101	125	145	156	2115	1550	925	695	615	800241
	1 5/8"	48,0	1200,0	101	95	113	123	133	2150	1900	1150	950	820	800242
Corrugations, groups of vertical slots at variable intervals														
	1 1/4"	38,8	920,0	96	89	-	-	-	-	-	-	-	-	800243
	1 1/4"	38,8	920,0	84	86	122	-	-	-	-	-	-	-	800244
	1 5/8"	48,0	1200,0	99	82	95	97	102	-	-	-	-	-	800245
Corrugations, groups of apertures, sloping slots														
	5/8"	22,0	400,0	103	134	-	-	-	1440	810	-	-	-	800246
	7/8"	28,7	640,0	95	129	-	-	-	1760	870	-	-	-	800247
	1 1/4"	38,8	980,0	87	103	-	-	-	2570	1380	-	-	-	800248
	1 5/8"	48,0	1200,0	108	106	120	132	157	1670	1500	1000	815	600	800249
Corrugations, groups of milled slots														
	3/8"	12,0	130,0	159	196	259	-	-	540	395	250	-	-	800250
	1/2"	16,0	230,0	124	151	202	225	238	930	630	390	290	240	800251
	7/8"	28,0	570,0	105	122	155	166	169	1460	960	600	530	515	800252
	1 1/4"	40,0	950,0	102	113	134	148	153	1715	1180	775	605	555	800253
	1 5/8"	51,0	1350,0	100	109	122	137	143	2030	1365	960	680	605	800254

## Application

Radiating coax cables permit communication in areas where electromagnetic propagation is impeded, undesirable, or impossible. This may be the case in tunnels, mines, buildings along railway routes and lines, as well as in large building complexes, such as exhibition centres and airports.