



HONG TAI ELECTRIC INDUSTRIAL CO., LTD. Since 1968



Shielded Control Cables

Control Cables

Coaxial Cables

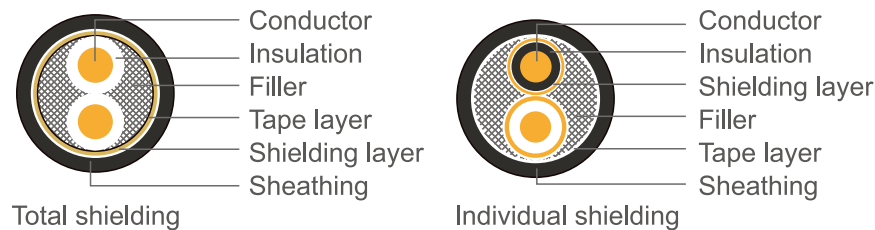
UL-Series Wire and Cable Products

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Shielded Control Cables

- Standard(s): (CVV, CEV, CEE, CCV, CCE) CNS 12726 C2172
- Shielding type: Copper tape shielding (S), copper-braided mesh shielding (SB), aluminum-foil tape shielding (SLA), copper- and iron-tape shielding (SCF), iron-tape shielding (SF)
- Application: Suitable for (shielded) control circuit lines below 600 V and various types of operation control lines
- Characteristics: Combustion resistant, oil resistant, chemical resistant, as well as moisture resistant and prevents current interference and electromagnetic induction interference
- Reference picture:



Electrical performance table

Nominal cross-sectional area mm ²	Construction (number of strands/strand diameter) or shape	Conductor resistance (Soft-drawn copper) (20°C) Ω/km	Insulation resistance MΩ.km		Test voltage V/1min
			PVC(20°C)	PE/XLPE	
0.9	7/0.4	21.3(21.7)	50	2,500	2,000
1.25	7/0.45	16.8(17.2)	50	2,500	2,000
2.0	7/0.6	9.42(9.61)	50	2,500	2,000
3.5	7/0.8	5.30(5.41)	50	2,500	2,000
5.5	7/1.0	3.40	50	2,500	2,000
8	7/1.2	2.36	50	2,000	2,000
	Round compact	2.34	50	2,000	2,000
14	7/1.6	1.33	40	1,500	2,000
	Round compact	1.34	40	1,500	2,000
22	7/2.0	0.840	40	1,500	2,000
	Round compact	0.849	40	1,500	2,000

Note: Values in brackets in the conductor resistance column are applicable to multiple pairs of cables

PVC, PE, XLPE-insulated PE, PVC-sheathed cable (copper-tape shielding) construction and performance table for control applications/ 2–30 cores

Number of cores	Conductor			Insulation thickness	Sheathing thickness	Finished external diameter (approx.)	Reference			Standard length
	Nominal cross-sectional area	Construction (number of strands/strand diameter)	External diameter (approx.)				Calculated weight kg/km			
							CVV-S	CEV-S CCV-S	CEE-S CCE-S	
	mm ²	strand/ mm	mm				mm	mm	mm	
2	0.9	7/0.4	1.2	0.8	1.5	10.0	115	110	90	300
	1.25	7/0.45	1.35	0.8	1.5	10.5	125	120	100	
	2.0	7/0.6	1.8	0.8	1.5	11.0	155	150	130	
	3.5	7/0.8	2.4	0.8	1.5	12.5	205	195	175	
	5.5	7/1.0	3.0	1.0	1.5	14.5	285	270	240	
3	0.9	7/0.4	1.2	0.8	1.5	10.5	135	125	110	
	1.25	7/0.45	1.35	0.8	1.5	11.0	145	140	120	
	2.0	7/0.6	1.8	0.8	1.5	12.0	190	180	155	
	3.5	7/0.8	2.4	0.8	1.5	13.0	225	240	215	
	5.5	7/1.0	3.0	1.0	1.5	15.0	355	335	305	
m										

Number of cores	Conductor			Insulation thickness	Sheathing thickness	Finished external diameter (approx.)	Reference			Standard length
	Nominal cross-sectional area	Construction (number of strands/strand diameter)	External diameter (approx.)				Calculated weight kg/km			
							CVV-S	CEV-S CCV-S	CEE-S CCE-S	
	mm ²	strand/ mm	mm				mm	mm	mm	
4	0.9	7/0.4	1.2	0.8	1.5	11.0	160	150	125	300
	1.25	7/0.45	1.35	0.8	1.5	11.5	175	165	140	
	2.0	7/0.6	1.8	0.8	1.5	12.5	225	210	185	
	3.5	7/0.8	2.4	0.8	1.5	14.0	310	295	265	
	5.5	7/1.0	3.0	1.0	1.5	16.5	440	415	380	
5	0.9	7/0.4	1.2	0.8	1.5	12.0	185	170	145	
	1.25	7/0.45	1.35	0.8	1.5	12.5	200	190	165	
	2.0	7/0.6	1.8	0.8	1.5	13.5	265	250	220	
	3.5	7/0.8	2.4	0.8	1.5	15.0	370	350	320	
	5.5	7/1.0	3.0	1.0	1.5	18.0	530	495	460	
6	0.9	7/0.4	1.2	0.8	1.5	13.0	210	195	170	
	1.25	7/0.45	1.35	0.8	1.5	13.5	235	215	190	
	2.0	7/0.6	1.8	0.8	1.5	14.5	310	285	260	
	3.5	7/0.8	2.4	0.8	1.5	16.5	430	405	375	
	5.5	7/1.0	3.0	1.0	1.5	19.5	625	585	545	
7	0.9	7/0.4	1.2	0.8	1.5	13.0	220	205	180	
	1.25	7/0.45	1.35	0.8	1.5	13.5	245	225	200	
	2.0	7/0.6	1.8	0.8	1.5	14.5	330	305	280	
	3.5	7/0.8	2.4	0.8	1.5	16.5	470	430	405	
	5.5	7/1.0	3.0	1.0	1.5	19.5	680	635	595	
8	0.9	7/0.4	1.2	0.8	1.5	13.5	250	230	200	
	1.25	7/0.45	1.35	0.8	1.5	14.0	280	255	225	
	2.0	7/0.6	1.8	0.8	1.5	15.5	375	350	315	
	3.5	7/0.8	2.4	0.8	1.5	17.5	535	500	465	
	5.5	7/1.0	3.0	1.0	1.5	21.0	780	725	680	
10	0.9	7/0.4	1.2	0.8	1.5	15.5	310	285	255	
	1.25	7/0.45	1.35	0.8	1.5	16.0	345	320	285	
	2.0	7/0.6	1.8	0.8	1.5	18.0	470	435	400	
	3.5	7/0.8	2.4	0.8	1.5	21.0	675	630	590	
	5.5	7/1.0	3.0	1.0	1.5	25.0	995	930	875	
12	0.9	7/0.4	1.2	0.8	1.5	16.0	345	315	280	
	1.25	7/0.45	1.35	0.8	1.5	16.5	385	350	320	
	2.0	7/0.6	1.8	0.8	1.5	18.5	530	490	450	
	3.5	7/0.8	2.4	0.8	1.5	21.0	765	715	670	
	5.5	7/1.0	3.0	1.0	1.5	26.0	1150	1070	1010	
15	0.9	7/0.4	1.2	0.8	1.5	17.5	405	365	330	
	1.25	7/0.45	1.35	0.8	1.5	18.0	455	415	375	
	2.0	7/0.6	1.8	0.8	1.5	22.0	630	580	535	
	3.5	7/0.8	2.4	0.8	1.5	23.0	925	860	810	
	5.5	7/1.0	3.0	1.0	1.5	28.0	1400	1300	1230	
20	0.9	7/0.4	1.2	0.8	1.5	19.0	500	450	410	
	1.25	7/0.45	1.35	0.8	1.5	19.5	570	515	470	
	2.0	7/0.6	1.8	0.8	1.5	22.0	805	735	690	
	3.5	7/0.8	2.4	0.8	1.5	26.0	1200	1120	1060	
	5.5	7/1.0	3.0	1.0	1.5	31.0	1810	1670	1590	
30	0.9	7/0.4	1.2	0.8	1.5	23.0	720	640	590	
	1.25	7/0.45	1.35	0.8	1.5	24.0	820	735	680	
	2.0	7/0.6	1.8	0.8	1.5	27.0	1170	1070	1000	
	3.5	7/0.8	2.4	0.8	1.5	31.0	1760	1630	1550	

PVC, PE, XLPE-insulated PE, PVC-sheathed cable (copper-tape shielding) construction and performance table for control applications/ 2–3 cores

Number of cores	Conductor			Insulation thickness		Sheathing thickness		Finished external diameter (approx.)		Reference			Standard length
	Nominal cross-sectional area	Construction (number of strands/ strand diameter)	External diameter (approx.)	CVV-S	CEV-S CCV-S CEE-S CCE-S	CVV-S	CEV-S CCV-S CEE-S CCE-S	CVV-S	CEV-S CCV-S CEE-S CCE-S	Calculated weight kg/km			
										CVV-S	CEV-S CCV-S	CEE-S CCE-S	
mm ²	strand/ mm	mm	mm		mm		mm					m	
2	8	7/1.2	3.6	1.2	1.0	1.5	1.5	16.5	15.5	380	340	305	300
		Round compact	3.4	1.2	1.0	1.5	1.5	16.0	15.0	365	330	300	
	14	7/1.6	4.8	1.4	1.0	1.5	1.5	19.5	18.0	570	495	460	
		Round compact	4.4	1.4	1.0	1.5	1.5	19.0	17.0	595	495	490	
	22	7/2.0	6.0	1.6	1.2	1.6	1.5	23.0	21.0	825	720	675	
		Round compact	5.5	1.6	1.2	1.5	1.5	22.0	20.0	775	690	650	
3	8	7/1.2	3.6	1.2	1.0	1.5	1.5	17.5	16.5	485	430	400	
		Round compact	3.4	1.2	1.0	1.5	1.5	17.0	16.0	410	420	390	
	14	7/1.6	4.8	1.4	1.0	1.5	1.5	21.0	19.0	745	650	610	
		Round compact	4.4	1.4	1.0	1.5	1.5	20.0	18.0	715	625	590	
	22	7/2.0	6.0	1.6	1.2	1.6	1.6	25.0	23.0	1090	960	910	
		Round compact	5.5	1.6	1.2	1.6	1.5	24.0	22.0	1040	920	875	

PVC, PE, XLPE-insulated PE, PVC sheathed cable (copper-wire braided shielding) construction and performance table for control applications/ 2–30 cores

Number of cores	Conductor			Insulation thickness	Sheathing thickness	Finished external diameter (approx.)	Reference			Standard length
	Nominal cross-sectional area	Construction (number of strands/strand diameter)	External diameter (approx.)				Calculated weight kg/km			
							CVV-SB	CEV-SB CCV-SB	CEE-SB CCE-SB	
										mm ²
	mm	mm	mm	mm	mm	mm			m	
2	0.9	7/0.4	1.2	0.8	1.5	9.8	125	120	100	300
	1.25	7/0.45	1.35	0.8	1.5	10.5	135	125	110	
	2.0	7/0.6	1.8	0.8	1.5	11.0	165	160	135	
	3.5	7/0.8	2.4	0.8	1.5	12.5	215	205	185	
	5.5	7/1.0	3.0	1.0	1.5	14.5	300	290	260	
3	0.9	7/0.4	1.2	0.8	1.5	10.5	145	135	115	
	1.25	7/0.45	1.35	0.8	1.5	11.0	155	145	125	
	2.0	7/0.6	1.8	0.8	1.5	12.0	200	190	165	
	3.5	7/0.8	2.4	0.8	1.5	13.0	265	255	225	
	5.5	7/1.0	3.0	1.0	1.5	15.0	375	335	325	
4	0.9	7/0.4	1.2	0.8	1.5	11.0	165	155	135	
	1.25	7/0.45	1.35	0.8	1.5	11.5	185	170	150	
	2.0	7/0.6	1.8	0.8	1.5	12.5	235	225	200	
	3.5	7/0.8	2.4	0.8	1.5	14.0	330	315	285	
	5.5	7/1.0	3.0	1.0	1.5	16.5	460	440	405	
5	0.9	7/0.4	1.2	0.8	1.5	12.0	195	180	155	
	1.25	7/0.45	1.35	0.8	1.5	12.5	210	200	175	
	2.0	7/0.6	1.8	0.8	1.5	13.5	280	260	235	
	3.5	7/0.8	2.4	0.8	1.5	15.5	390	370	340	
	5.5	7/1.0	3.0	1.0	1.5	18.0	555	520	485	
6	0.9	7/0.4	1.2	0.8	1.5	13.0	220	205	175	
	1.25	7/0.45	1.35	0.8	1.5	13.5	245	225	200	
	2.0	7/0.6	1.8	0.8	1.5	14.5	325	305	275	
	3.5	7/0.8	2.4	0.8	1.5	16.5	450	430	395	
	5.5	7/1.0	3.0	1.0	1.5	19.5	645	610	570	

Number of cores	Conductor			Insulation thickness	Sheathing thickness	Finished external diameter (approx.)	Reference			Standard length
	Nominal cross-sectional area	Construction (number of strands/strand diameter)	External diameter (approx.)				Calculated weight kg/km			
							CVV-SB	CEV-SB CCV-SB	CEE-SB CCE-SB	
	mm ²	strand/ mm	mm				mm	mm	mm	
7	0.9	7/0.4	1.2	0.8	1.5	13.0	230	215	190	300
	1.25	7/0.45	1.35	0.8	1.5	13.5	260	240	210	
	2.0	7/0.6	1.8	0.8	1.5	14.5	350	325	295	
	3.5	7/0.8	2.4	0.8	1.5	16.5	490	450	430	
	5.5	7/1.0	3.0	1.0	1.5	19.5	705	660	620	
8	0.9	7/0.4	1.2	0.8	1.5	13.5	260	240	215	
	1.25	7/0.45	1.35	0.8	1.5	14.5	295	275	245	
	2.0	7/0.6	1.8	0.8	1.5	16.0	395	390	335	
	3.5	7/0.8	2.4	0.8	1.5	18.0	550	525	490	
	5.5	7/1.0	3.0	1.0	1.5	21.0	815	765	720	
10	0.9	7/0.4	1.2	0.8	1.5	15.5	330	305	275	
	1.25	7/0.45	1.35	0.8	1.5	16.5	390	340	310	
	2.0	7/0.6	1.8	0.8	1.5	18.0	495	460	425	
	3.5	7/0.8	2.4	0.8	1.5	21.0	705	660	615	
	5.5	7/1.0	3.0	1.0	1.7	25.0	1050	985	925	
12	0.9	7/0.4	1.2	0.8	1.5	16.0	365	335	305	
	1.25	7/0.45	1.35	0.8	1.5	17.0	410	375	340	
	2.0	7/0.6	1.8	0.8	1.5	18.5	555	515	475	
	3.5	7/0.8	2.4	0.8	1.5	22.0	810	750	710	
	5.5	7/1.0	3.0	1.0	1.7	26.0	1190	1120	1050	
15	0.9	7/0.4	1.2	0.8	1.5	17.5	425	390	355	
	1.25	7/0.45	1.35	0.8	1.5	18.0	480	435	400	
	2.0	7/0.6	1.8	0.8	1.5	20.0	655	605	555	
	3.5	7/0.8	2.4	0.8	1.6	23.0	970	905	855	
	5.5	7/1.0	3.0	1.0	1.8	28.0	1450	1350	1280	
20	0.9	7/0.4	1.2	0.8	1.5	19.0	530	480	440	
	1.25	7/0.45	1.35	0.8	1.5	20.0	595	540	500	
	2.0	7/0.6	1.8	0.8	1.6	23.0	850	780	730	
	3.5	7/0.8	2.4	0.8	1.7	26.0	1250	1170	1100	
	5.5	7/1.0	3.0	1.0	1.9	32.0	1670	1740	1660	
30	0.9	7/0.4	1.2	0.8	1.6	23.0	760	685	635	
	1.25	7/0.45	1.35	0.8	1.6	24.0	865	780	725	
	2.0	7/0.6	1.8	0.8	1.7	27.0	1220	1120	1060	
	3.5	7/0.8	2.4	0.8	1.9	31.0	1840	1710	1630	

Control Cables CVV

- **Standard(s):**(CVV)CNS 4898 C2064
- **Application:**Control cables for use in low-voltage control circuits
- **Characteristics:**Good electrical and mechanical properties, as well as resistance to fire, chemicals, and oil

Construction and properties table/ 600V 2–30 cores

Conductor			Insulation thickness	2-core cable		3-core cable		4-core cable		Maximum conductor resistance (Soft-drawn copper 20°C)	Minimum insulator resistance (20°C)	Test voltage
Nominal cross-sectional area	Construction (number of strands/strand diameter) or shape	External diameter (approx.)		Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)			
mm ²	strand / mm	mm	mm	mm	mm	mm	mm	mm	mm	Ω / km	Ω.km	V/1min
1.25	7/0.45	1.35	0.8	1.5	9.4	1.5	9.9	1.5	11.0	16.8	50	
2.0	7/0.6	1.80	0.8	1.5	10.5	1.5	11.0	1.5	12.0	9.42	50	
3.5	7/0.8	2.4	0.8	1.5	11.5	1.5	12.5	1.5	13.5	5.30	50	
5.5	7/1.0	3.0	1.0	1.5	13.5	1.5	14.5	1.5	16.0	3.40	50	
8	7/1.2	3.6	1.2	1.5	15.5	1.5	16.5	1.6	18.0	2.36	50	
	Round compact	3.4	1.2	1.5	15.5	1.5	16.0	1.6	17.5	2.34	50	
14	7/1.6	4.8	1.4	1.5	19.0	1.5	20.0	1.6	23.0	1.33	40	
	Round compact	4.4	1.4	1.5	18.0	1.5	19.0	1.5	21.0	1.34	40	
22	7/2.0	6.0	1.6	1.6	23.0	1.6	24.0	1.7	27.0	0.840	40	
	Round compact	5.5	1.6	1.5	21.0	1.6	23.0	1.7	25.0	0.849	40	
Conductor			Insulation thickness	5-core cable		6-core cable		7-core cable		Maximum conductor resistance (Soft-drawn copper 20°C)	Minimum insulator resistance (20°C)	2000
Nominal cross-sectional area	Construction (number of strands/strand diameter) or shape	External diameter (approx.)		Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)			
mm ²	strand / mm	mm	mm	mm	mm	mm	mm	mm	mm	Ω / km	Ω.km	
1.25	7/0.45	1.35	0.8	1.5	11.5	1.5	12.5	1.5	12.5	16.8	50	
2.0	7/0.6	1.80	0.8	1.5	13.0	1.5	14.0	1.5	14.0	9.42	50	
3.5	7/0.8	2.4	0.8	1.5	14.5	1.5	15.5	1.5	15.5	5.30	50	
5.5	7/1.0	3.0	1.0	1.5	17.0	1.5	18.5	1.5	18.5	3.40	50	
8	7/1.2	3.6	1.2	1.5	20.0	1.5	22.0	1.5	22.0	2.36	50	
	Round compact	3.4	1.2	1.5	18.5	1.5	21.0	1.5	21.0	2.34	50	
14	7/1.6	4.8	1.4	1.6	25.0	1.7	27.0	-	-	1.33	40	
	Round compact	4.4	1.4	1.6	24.0	1.7	26.0	-	-	1.34	40	
Conductor			Insulation thickness	8-core cable		10-core cable		12-core cable		Maximum conductor resistance (Soft-drawn copper 20°C)	Minimum insulator resistance (20°C)	
Nominal cross-sectional area	Construction (number of strands/strand diameter) or shape	External diameter (approx.)		Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)			
mm ²	strand / mm	mm	mm	mm	mm	mm	mm	mm	mm	Ω / km	Ω.km	
1.25	7/0.45	1.35	0.8	1.5	13.5	1.5	15.5	1.5	16.0	16.8	50	
2.0	7/0.6	1.80	0.8	1.5	15.0	1.5	17.5	1.5	18.0	9.42	50	
3.5	7/0.8	2.4	0.8	1.5	17.0	1.5	19.5	1.5	21.0	5.30	50	
5.5	7/1.0	3.0	1.0	1.5	21.0	1.6	24.0	1.7	25.0	3.40	50	
8	7/1.2	3.6	1.2	1.6	24.0	1.8	29.0	1.8	30.0	2.36	50	
	Round compact	3.4	1.2	1.6	23.0	1.7	28.0	1.8	29.0	2.34	50	
Conductor			Insulation thickness	15-core cable		20-core cable		30-core cable		Maximum conductor resistance (Soft-drawn copper 20°C)	Minimum insulator resistance (20°C)	
Nominal cross-sectional area	Construction (number of strands/strand diameter) or shape	External diameter (approx.)		Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)			
mm ²	strand / mm	mm	mm	mm	mm	mm	mm	mm	mm	Ω / km	Ω.km	
1.25	7/0.45	1.35	0.8	1.5	17.0	1.5	19.0	1.6	23.0	16.8	50	
2.0	7/0.6	1.80	0.8	1.5	19.0	1.5	22.0	1.7	26.0	9.42	50	
3.5	7/0.8	2.4	0.8	1.5	22.0	1.6	25.0	1.8	30.0	5.30	50	
5.5	7/1.0	3.0	1.0	1.7	27.0	1.9	31.0	-	-	3.40	50	

Control Cables CEV, CEE, CCV, CCE

- Standard(s): (CEV, CEE, CCV, CCE) CNS 4898 C2064
- Application: Control cables for use in low-voltage control circuits
- Characteristics: Good electrical and mechanical properties, as well as resistance to fire, chemicals, and oil

Construction and properties table/ 600V 2-30 cores

Conductor			Insulation thickness	2-core cable		3-core cable		4-core cable		Maximum conductor resistance (Soft-drawn copper 20°C)	Minimum insulator resistance (20°C)	Test voltage
Nominal cross-sectional area	Construction (number of strands/strand diameter) or shape	External diameter (approx.)		Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)			
mm ²	strand / mm	mm	mm	mm	mm	mm	mm	mm	mm	Ω / km	Ω.km	V/1min
1.25	7/0.45	1.35	0.8	1.5	9.4	1.5	9.9	1.5	11.0	16.8	2500	
2.0	7/0.6	1.8	0.8	1.5	10.5	1.5	11.0	1.5	12.0	9.42	2500	
3.5	7/0.8	2.4	0.8	1.5	11.5	1.5	12.5	1.5	13.5	5.30	2500	
5.5	7/1.0	3.0	1.0	1.5	13.5	1.5	14.5	1.5	16.0	3.40	2500	
8	7/1.2	3.6	1.0	1.5	15.0	1.5	16.0	1.5	17.0	2.36	2000	
	Round compact	3.4	1.0	1.5	14.5	1.5	15.5	1.5	16.5	2.34	2000	
14	7/1.6	4.8	1.0	1.5	17.5	1.5	18.5	1.5	20.0	1.33	1500	
	Round compact	4.4	1.0	1.5	16.5	1.5	17.5	1.5	19.0	1.34	1500	
22	7/2.0	6.0	1.2	1.5	21.0	1.5	22.0	1.6	24.0	0.840	1500	
	Round compact	5.5	1.2	1.5	19.5	1.5	21.0	1.6	23.0	0.849	1500	
Conductor			Insulation thickness	5-core cable		6-core cable		7-core cable		Maximum conductor resistance (Soft-drawn copper 20°C)	Minimum insulator resistance (20°C)	2000
Nominal cross-sectional area	Construction (number of strands/strand diameter) or shape	External diameter (approx.)		Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)			
mm ²	strand / mm	mm	mm	mm	mm	mm	mm	mm	mm	Ω / km	Ω.km	
1.25	7/0.45	1.35	0.8	1.5	11.5	1.5	12.5	1.5	12.5	16.8	2500	
2.0	7/0.6	1.8	0.8	1.5	13.0	1.5	14.0	1.5	14.0	9.42	2500	
3.5	7/0.8	2.4	0.8	1.5	14.5	1.5	15.5	1.5	15.5	5.30	2500	
5.5	7/1.0	3.0	1.0	1.5	17.0	1.5	18.5	1.5	18.5	3.40	2500	
8	7/1.2	3.6	1.0	1.5	19.0	1.5	21.0	1.5	21.0	2.36	2000	
	Round compact	3.4	1.0	1.5	18.5	1.5	20.0	1.5	20.0	2.34	2000	
14	7/1.6	4.8	1.0	1.6	23.0	1.6	25.0	-	-	1.33	1500	
	Round compact	4.4	1.0	1.5	21.0	1.6	23.0	-	-	1.34	1500	
Conductor			Insulation thickness	8-core cable		10-core cable		12-core cable		Maximum conductor resistance (Soft-drawn copper 20°C)	Minimum insulator resistance (20°C)	
Nominal cross-sectional area	Construction (number of strands/strand diameter) or shape	External diameter (approx.)		Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)			
mm ²	strand / mm	mm	mm	mm	mm	mm	mm	mm	mm	Ω / km	Ω.km	
1.25	7/0.45	1.35	0.8	1.5	13.5	1.5	15.5	1.5	16.0	16.8	2500	
2.0	7/0.6	1.80	0.8	1.5	15.0	1.5	17.5	1.5	18.0	9.42	2500	
3.5	7/0.8	2.4	0.8	1.5	17.0	1.5	19.5	1.5	21.0	5.30	2500	
5.5	7/1.0	3.0	1.0	1.5	21.0	1.6	24.0	1.7	25.0	3.40	2500	
8	7/1.2	3.6	1.0	1.6	23.0	1.7	27.0	1.8	28.0	2.36	2000	
	Round compact	3.4	1.0	1.5	22.0	1.7	26.0	1.7	27.0	2.34	200	
Conductor			Insulation thickness	15-core cable		20-core cable		30-core cable		Maximum conductor resistance (Soft-drawn copper 20°C)	Minimum insulator resistance (20°C)	
Nominal cross-sectional area	Construction (number of strands/strand diameter) or shape	External diameter (approx.)		Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)	Sheathing thickness	Finished external diameter (approx.)			
mm ²	strand / mm	mm	mm	mm	mm	mm	mm	mm	mm	Ω / km	Ω.km	
1.25	7/0.45	1.35	0.8	1.5	17.0	1.5	19.0	1.6	23.0	16.8	2500	
2.0	7/0.6	1.80	0.8	1.5	19.0	1.5	22.0	1.7	26.0	9.42	2500	
3.5	7/0.8	2.4	0.8	1.5	22.0	1.6	25.0	1.8	30.0	5.30	2500	
5.5	7/1.0	3.0	1.0	1.7	27.0	1.9	31.0	-	-	3.40	2500	

Coaxial Cables

Type	Isolation method	Application
3C2V	Copper-braided mesh (112 braids)	Used to transmit video and audio signals from cameras to recording equipment
5C2V	Copper-braided mesh (168 braids)	Used to transmit video and audio signals from cameras to recording equipment; offers good noise isolation to prevent noise issues
5CFB	Copper-braided mesh (168 braids) + aluminum foil	Used to transmit video and audio signals from cameras to recording equipment; offers good noise isolation to prevent noise issues; not sensitive to lightning
5CFB + steel-wire rope	Copper-braided mesh (168 braids) + aluminum foil layer	Used to transmit video and audio signals from cameras to recording equipment; offers good noise isolation to prevent noise issues; not sensitive to lightning; can be fitted with steel-wire rope for overhead lines
5CFB + steel-wire rope+ power-supply cable	Copper-braided mesh (168 braids) + aluminum foil layer	Used to transmit video and audio signals from cameras to recording equipment; offers good noise isolation to prevent noise issues; not sensitive to lightning; can be fitted with steel-wire rope for overhead lines; equipped with a power cable
5CFV (Elevator only)	Copper-braided mesh (128 braids)	Designed for elevator wiring; used to transmit video and audio signals from cameras to recording equipment; offers good noise isolation to prevent noise issues
7C2V	Copper-braided mesh (240 braids)	Mostly used for outdoor wiring; thicker wire gage offers better transmission range than 3C and 5C cables, but is more difficult to pull
7C2V + steel-wire rope	Copper-braided mesh (240 braids)	Mostly used for outdoor wiring; thicker wire gage offers better transmission range than 3C and 5C cables, but is more difficult to pull; can be fitted with a steel-wire rope
7C2V + steel-wire rope + power-supply cable	Copper-braided mesh (240 braids)	Mostly used for outdoor wiring; thicker wire gage offers better transmission range than 3C and 5C cables, but is more difficult to pull; can be fitted with a steel-wire rope for overhead lines; equipped with a power cable
7CFB	Copper-braided mesh (192 braids) + aluminum-foil	Mostly used for outdoor wiring; thicker wire gage offers better transmission range than 3C and 5C cables, but is more difficult to pull
7CFB + steel-wire rope	Copper-braided mesh (192 braids) + aluminum-foil	Mostly used for outdoor wiring; thicker wire gage offers better transmission range than 3C and 5C cables, but is more difficult to pull; can be fitted with a steel-wire rope
7CFB + steel-wire rope + power-supply cable	Copper-braided mesh (192 braids) + aluminum-foil layer	Mostly used for outdoor wiring; thicker wire gage offers better transmission range than 3C and 5C cables, but is more difficult to pull; can be fitted with a steel-wire rope for overhead lines; equipped with a power cable

UL-Series Wire and Cable Products

Our company is authorized to supply the following UL-certified products:

Single-core, thermoplastic insulation							
1015	1061	1195	1208	1430	1472	1571	1761
Multi-core, thermoplastic insulation							
2095	2346	2387	2493	2569	2626	2709	2919
2343	2384	2388	2502	2571	2655	2722	2934
2344	2385	2464	2532	2586	2660	2851	2990
2345	2386	2490	2560	2598	2704	2854	20276
Single-core, thermosetting plastic insulation							
3173	3271	3287	3312	3346	3351	3401	
3265	3272	3288	3321	3347	3352	3432	
3266	3286	3289	3331	3348	3398		