



TABRIZ HADI

Wire&Cable

General Catalogue



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About TABRIZHADI Co.



Tabriz hadi wire and Cable Company was founded by sarraf brothers (kazem & mahmoud) in 1995. Located in 22 km of Tabriz historical and industrial city, it has a surface area of 10000 square meters. On account of great attempts machines and instruments were installed and put into work within the first year. All the products are in accordance with the global standards as it is of a great importance to the management. So we got the ISO 9001-2000 management system from Germany by executing the quality management. This has led to acquiring expert as our customers.

The production and expansion procedure of the company can be divided into 3 parts:

- 1-The start stayed for public use production.
- 2-Technical production and industrial orders.
- 3-Mass production and being introduced to the global markets.

We are looking forward to approach our long term quantities and qualities objectives by using the latest technology and the finest materials and with proficient engineers we are ready to design and produce the particular orders. By using these experts in shape of research and development group we start to expansion of company. All the progressions and improvements we are blessed with are due to our devoted colleagues who we would like to appreciate in here.



Certificates & Standards

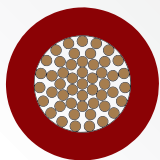
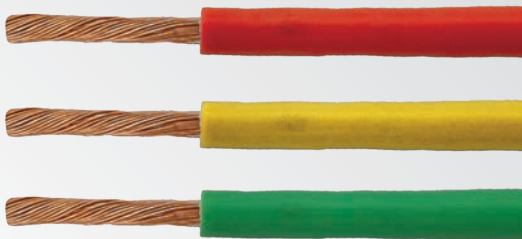


دارنده گواهینامه های کیفیت و ایمنی از کشور آلمان

300/500v & 450/750v PVC insulated wires flexible

It is used for indoor distribution line or wiring of electrical apparatus up to 750v grade.

Standard: IEC 60227 & ISIRI 607
H05V-K H05V-F H07V-K H07V-F



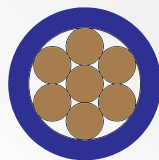
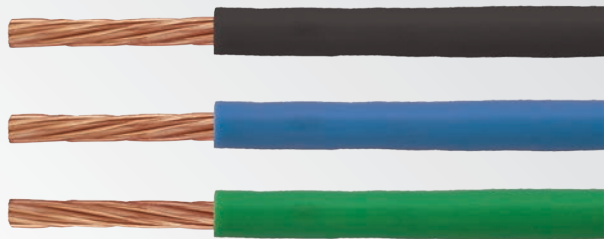
Nominal area (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
0.5	16×0.19	0.6	2.1	39.0	9	100
0.75	24×0.19	0.6	2.25	26.0	12	100
1	32×0.19	0.6	2.5	19.5	16	100
1.5	30×0.24	0.7	3.0	13.3	21	100
2.5	50×0.24	0.8	3.7	7.98	33	100
4	50×0.30	0.8	4.2	4.95	49	100
6	75×0.30	0.8	4.9	3.30	69	100
10	133×0.30	1.0	6.5	1.91	120	100
16	7× (30×0.30)	1.0	7.6	1.21	185	1000
25	7× (46×0.30)	1.2	9.4	0.780	289	1000
35	7× (65×0.30)	1.2	10.9	0.554	394	1000

Test voltage: 2500v /5 min

450/750v PVC insulated wires Stranded

It used for indoor distribution line or wiring of electrical apparatus up to 750v grade.

Standard: IEC 60227 & ISIRI 607
H07V-U



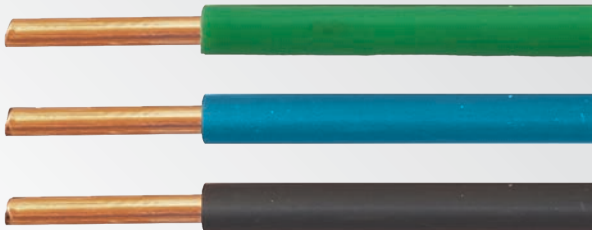
Nominal area (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
1.5	7×0.53	0.7	3	12.1	21.5	100
2.5	7×0.67	0.8	3.6	7.41	32.9	100
4	7×0.85	0.8	4.2	4.61	49.1	100
6	7×1.04	0.8	4.8	3.08	70	100
10	7×1.35	1.0	6.1	1.83	116	100
16	7×1.70	1.0	7.1	1.15	175	1000
25	7×2.14	1.2	8.9	0.727	278	1000
35	7×2.52	1.2	10.0	0.524	375	1000
50	19×1.78	1.4	11.7	0.387	506	500
70	19×2.14	1.4	13.5	0.268	713	500

Test voltage: 2500v /5 min

450/750v PVC insulated wires
solid

It is used for indoor distribution line or wiring of electrical apparatus up to 750v grade.

Standard: IEC 60227 & ISIRI 607
H07V-U



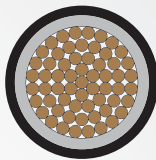
Nominal area (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
1.5	1×1.38	0.7	2.8	12.1	19.8	100
2.5	1×1.78	0.8	3.4	7.41	30.9	100
4	1×2.25	0.8	3.9	4.61	46	100
6	1×2.76	0.8	4.4	3.08	64.9	100
10	1×3.57	1.0	5.6	1.83	109	100

Test voltage: 2500v /5 min

0.6/1KV Copper conductor,
PVC insulated and sheathed power cables
(Single core)

It is used for lighting and power in residential, commercial and industrial distribution line.

Standard: IEC 60502-1 & ISIRI 3569-1
H1VV-U H1VV-R



Number & Nominal area (mm²)	Construction Conductor (No-mm)	Insulation Thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/Km)	Approx. cable weight (Kg/Km)	Standard length (m)
1×4	1×2.25	1.0	1.4	6.7	4.61	84.3	1000
1×4	7×0.85	1.0	1.4	7.0	4.61	88.5	1000
1×6	1×2.76	1.0	1.4	7.2	3.08	108	1000
1×6	7×1.04	1.0	1.4	7.6	3.08	113	1000
1×10	1×3.57	1.0	1.4	8.4	1.83	152	1000
1×10	7×1.35	1.0	1.4	8.8	1.83	160	1000
1×16	7×1.70	1.0	1.4	9.9	1.15	228	1000
1×25	7×2.12	1.2	1.4	11.6	0.727	336	1000
1×35	7×2.50	1.2	1.4	12.7	0.524	440	1000
1×50	19×1.78	1.4	1.4	14.5	0.387	587	1000
1×70	19×2.12	1.4	1.4	16.2	0.268	793	1000
1×95	19×2.50	1.6	1.5	18.7	0.193	1080	1000
1×120	37×2.01	1.6	1.5	20.3	0.153	1323	500
1×150	37×2.22	1.8	1.6	22.4	0.124	1604	500
1×185	37×2.50	2.0	1.7	25.0	0.0991	2021	500
1×240	61×2.22	2.2	1.8	28.0	0.0754	2594	500
1×300	61×2.50	2.4	1.9	31.3	0.0601	3260	500
1×400	61×2.85	2.6	2.0	34.9	0.0470	4186	500
1×500	61×3.20	2.8	2.1	38.6	0.0366	5231	500

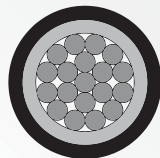
Test voltage: 3.5 kv/5 min

0.6/1KV Aluminum conductor
PVC insulated and sheathed power cables
(Single core)

It is used for lighting and power in residential, commercial and industrial distribution line.



Standard: IEC 60502-1 & ISIRI 3569-1
H1VV-AU H1VV-AR



Number & Nominal area (mm²)	Construction Conductor (No-mm)	Insulation thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/Km)	Approx. Ca-ble Weight (Kg/Km)	Standard length (m)
1×16	7×1.70	1.0	1.4	9.9	1.91	128	1000
1×25	7×2.12	1.2	1.4	11.6	1.20	180	1000
1×35	7×2.50	1.2	1.4	12.7	0.868	223	1000
1×50	19×1.78	1.4	1.4	14.5	0.641	288	1000
1×70	19×2.12	1.4	1.4	16.2	0.443	369	1000
1×95	19×2.50	1.6	1.5	18.7	0.320	491	1000
1×120	37×2.01	1.6	1.5	20.3	0.253	585	500
1×150	37×2.22	1.8	1.6	22.4	0.206	700	500
1×185	37×2.50	2.0	1.7	25.0	0.164	874	500
1×240	61×2.22	2.2	1.8	28.0	0.125	1103	500
1×300	61×2.50	2.4	1.9	31.3	0.100	1370	500
1×400	61×2.85	2.6	2.0	34.9	0.0778	1730	500
1×500	61×3.20	2.8	2.1	38.6	0.0605	2135	500

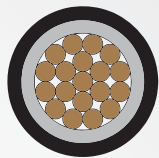
Test voltage: 3.5 kv/5 min

0.6/1KV Copper conductor,
XLPE insulated and PVC sheathed power cables
(Single core)

It is used for lighting and power in residential, commercial and industrial distribution line.



Standard: IEC 60502-1 & ISIRI 3569-1
H1ZV-U H1ZV-R



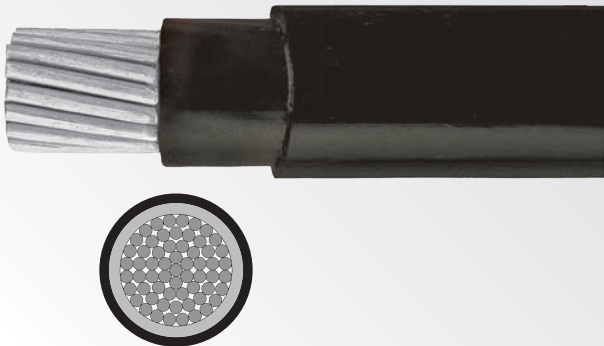
Number & Nominal area (mm²)	Construction Conductor (No-mm)	Insulation Thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/Km)	Approx. ca-ble weight (Kg/Km)	Standard length (m)
1×4	1×2.25	0.7	1.4	6.45	4.61	72	1000
1×4	7×0.85	0.7	1.4	6.75	4.61	76	1000
1×6	1×2.76	0.7	1.4	6.95	3.08	94	1000
1×6	7×1.04	0.7	1.4	7.32	3.08	98	1000
1×10	1×3.57	0.7	1.4	7.76	1.83	136	1000
1×10	7×1.35	0.7	1.4	8.25	1.83	142	1000
1×16	7×1.70	0.7	1.4	9.3	1.15	203	1000
1×25	7×2.12	0.9	1.4	11.0	0.727	301	1000
1×35	7×2.50	0.9	1.4	12.1	0.524	396	1000
1×50	19×1.78	1	1.4	13.7	0.387	527	1000
1×70	19×2.12	1.1	1.4	15.6	0.268	718	1000
1×95	19×2.50	1.1	1.5	17.7	0.193	983	1000
1×120	37×2.01	1.2	1.5	19.5	0.153	1219	500
1×150	37×2.22	1.4	1.6	21.5	0.124	1485	500
1×185	37×2.50	1.6	1.6	23.9	0.0991	1865	500
1×240	61×2.22	1.7	1.7	26.8	0.0754	2420	500
1×300	61×2.50	1.8	1.8	29.7	0.0601	3043	500
1×400	61×2.85	2	2.0	33.65	0.0470	3926	500
1×500	61×3.20	2.2	2.1	37.24	0.0366	4922	500

Test voltage: 3.5 kv/5 min

0.6/1KV Aluminum conductor,
XLPE insulated and PVC sheathed power cables
(Single core)

It is used for lighting and power in residential,
commercial and industrial distribution line.

Standard: IEC 60502-1 & ISIRI 3569-1
H1ZV-AU H1ZV-AR

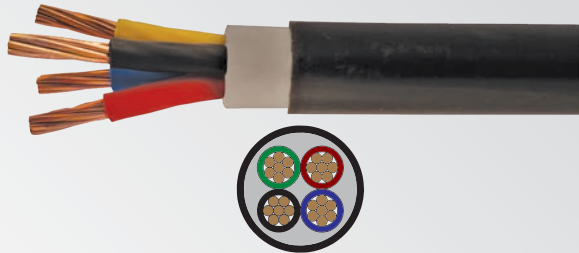


Number & Nominal area (mm²)	Construction Conductor (No-mm)	Insulation Thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/Km)	Approx. cable weight (Kg/Km)	Standard length (m)
1×4	1×2.25	0.7	1.4	6.45	4.61	72	1000
1×4	7×0.85	0.7	1.4	6.75	4.61	76	1000
1×6	1×2.76	0.7	1.4	6.95	3.08	94	1000
1×6	7×1.04	0.7	1.4	7.32	3.08	98	1000
1×10	1×3.57	0.7	1.4	7.76	1.83	136	1000
1×10	7×1.35	0.7	1.4	8.25	1.83	142	1000
1×16	7×1.70	0.7	1.4	9.3	1.15	203	1000
1×25	7×2.12	0.9	1.4	11.0	0.727	301	1000
1×35	7×2.50	0.9	1.4	12.1	0.524	396	1000
1×50	19×1.78	1	1.4	13.7	0.387	527	1000
1×70	19×2.12	1.1	1.4	15.6	0.268	718	1000
1×95	19×2.50	1.1	1.5	17.7	0.193	983	1000
1×120	37×2.01	1.2	1.5	19.5	0.153	1219	500
1×150	37×2.22	1.4	1.6	21.5	0.124	1485	500
1×185	37×2.50	1.6	1.6	23.9	0.0991	1865	500
1×240	61×2.22	1.7	1.7	26.8	0.0754	2420	500
1×300	61×2.50	1.8	1.8	29.7	0.0601	3043	500
1×400	61×2.85	2	2.0	33.65	0.0470	3926	500
1×500	61×3.20	2.2	2.1	37.24	0.0366	4922	500

0.6/1Kv Copper conductor,
PVC insulated and sheathed power multicore cable
(round type)

It is used for lighting and power in residential,
Commercial and industrial distribution line.

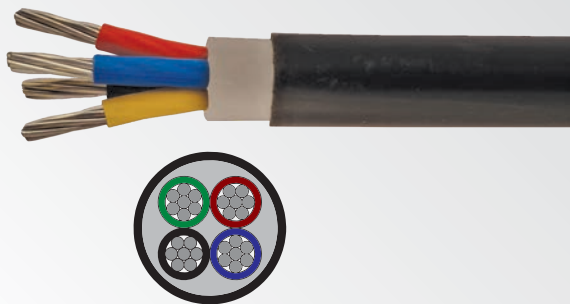
Standard: IEC 60502-1 & ISIRI 3569-1
H1VV-U H1VV-R



Number & Nominal area (mm²)	Construction conductor (No-mm)	Insulation Thickness (mm)	Filler thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resis- tance at 20°C (Ω/Km)	Approx. cable weight (Kg/Km)	Standard length (m)
2×1.5	1×1.40	0.8	1.0	1.35	10.7	12.1	179	1000
2×1.5	7×0.53	0.8	1.0	1.35	11.1	12.1	193	1000
2×2.5	1×1.78	0.8	1.0	1.35	11.5	7.41	215	1000
2×2.5	7×0.67	0.8	1.0	1.35	11.9	7.41	231	1000
2×4	1×2.25	1.0	1.0	1.35	13.3	4.61	296	1000
2×4	7×0.85	1.0	1.0	1.35	13.8	4.61	317	1000
2×6	1×2.76	1.0	1.0	1.35	14.3	3.08	361	1000
2×6	7×1.04	1.0	1.0	1.35	15.0	3.08	388	1000
2×10	1×3.57	1.0	1.0	1.35	15.9	1.83	485	1000
2×10	7×1.35	1.0	1.0	1.35	16.8	1.83	524	1000
2×16	7×1.71	1.0	1.0	1.35	19.0	1.15	709	1000
2×25	7×2.12	1.2	1.0	1.35	22.4	0.727	1028	500
2×35	7×2.50	1.2	1.0	1.35	24.7	0.524	1303	500
3×1.5	1×1.40	0.8	1.0	1.35	11.2	12.1	202	1000
3×1.5	7×0.53	0.8	1.0	1.35	11.6	12.1	218	1000
3×2.5	1×1.78	0.8	1.0	1.35	12.0	7.41	249	1000
3×2.5	7×0.67	0.8	1.0	1.35	13.5	7.41	266	1000
3×4	1×2.25	1.0	1.0	1.35	13.9	4.61	344	1000
3×4	7×0.85	1.0	1.0	1.35	14.5	4.61	369	1000
3×6	1×2.76	1.0	1.0	1.35	15.0	3.08	429	1000
3×6	7×1.04	1.0	1.0	1.35	15.7	3.08	457	1000
3×10	1×3.57	1.0	1.0	1.35	16.8	1.83	590	1000
3×10	7×1.35	1.0	1.0	1.35	17.7	1.83	633	1000
3×16	7×1.71	1.0	1.0	1.35	20.1	1.15	875	500
3×25	7×2.12	1.2	1.0	1.35	23.8	0.727	1282	500
3×35	7×2.50	1.2	1.0	1.35	26.2	0.524	1643	500
4×1.5	1×1.40	0.8	1.0	1.35	11.9	12.1	232	1000
4×1.5	7×0.53	0.8	1.0	1.35	12.4	12.1	251	1000
4×2.5	1×1.78	0.8	1.0	1.35	12.9	7.41	292	1000
4×2.5	7×0.67	0.8	1.0	1.35	13.9	7.41	308	1000
4×4	1×2.25	1.0	1.0	1.35	15.0	4.61	408	1000
4×4	7×0.85	1.0	1.0	1.35	15.7	4.61	438	1000
4×6	1×2.76	1.0	1.0	1.35	16.2	3.08	517	1000
4×6	7×1.04	1.0	1.0	1.35	17.1	3.08	553	1000
4×10	1×3.57	1.0	1.0	1.35	18.2	1.83	720	1000
4×10	7×1.35	1.0	1.0	1.35	19.3	1.83	771	1000
4×16	7×1.71	1.0	1.0	1.35	21.9	1.15	1074	500
4×25	7×2.12	1.2	1.0	1.35	26.1	0.727	1593	500
4×35	7×2.50	1.2	1.0	1.35	28.8	0.524	2048	500
3×25/16	7×2.12/7×1.71	1.2/1.0	1.0	1.35	25.0	0.727/1.15	1443	500
3×35/16	7×2.50/7×1.71	1.2/1.0	1.0	1.35	27.0	0.524/1.15	1795	500

0.6/1Kv Aluminum conductor,
PVC insulated and sheathed power multicore cables
(round type)

It is used for lighting and power in residential,
Commercial and industrial distribution line.



Standard: IEC 60502-1 & ISIRI 3569-1
H1VV-AU H1VV-AR

Number & Nominal area (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Filler thickness (mm)	Sheath thick-ness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/Km)	Approx. ca-ble weight (Kg/Km)	Stan-dard length (m)
2×10	1×3.52	1.0	1.0	1.35	15.6	3.08	351	1000
2×10	7×1.34	1.0	1.0	1.35	16.8	3.08	394	1000
2×16	1×4.46	1.0	1.0	1.35	17.7	1.91	447	1000
2×16	7×1.71	1.0	1.0	1.35	18.7	1.91	500	1000
2×25	1×5.58	1.2	1.0	1.35	20.7	1.20	618	500
2×25	7×2.12	1.2	1.0	1.35	22.5	1.20	702	500
2×35	1×6.58	1.2	1.0	1.35	22.7	0.868	753	500
2×35	7×2.50	1.2	1.0	1.35	24.7	0.868	955	500
3×10	1×3.52	1.0	1.0	1.35	16.6	3.08	395	1000
3×10	7×1.34	1.0	1.0	1.35	17.7	3.08	438	1000
3×16	1×4.46	1.0	1.0	1.35	18.6	1.91	505	1000
3×16	7×1.71	1.0	1.0	1.35	20.0	1.91	563	1000
3×25	1×5.58	1.2	1.0	1.35	21.9	1.20	704	500
3×25	7×2.12	1.2	1.0	1.35	23.9	1.20	797	500
3×35	1×6.58	1.2	1.0	1.35	24.1	0.868	861	500
3×35	7×2.50	1.2	1.0	1.35	26.2	0.868	972	500
4×10	1×3.52	1.0	1.0	1.35	18.0	3.08	461	1000
4×10	7×1.34	1.0	1.0	1.35	19.3	3.08	510	1000
4×16	1×4.46	1.0	1.0	1.35	20.3	1.91	593	500
4×16	7×1.71	1.0	1.0	1.35	21.9	1.91	660	500
4×25	1×5.58	1.2	1.0	1.35	24.0	1.20	830	500
4×25	7×2.12	1.2	1.0	1.35	26.1	1.20	939	500
4×35	1×6.58	1.2	1.0	1.35	26.4	0.868	1023	500
4×35	7×2.50	1.2	1.0	1.35	28.8	0.868	1152	500
3×25/16	7×2.12/7×1.71	1.2/1.0	1.0	1.35	25.0	1.20/1.91	864	500
3×35/16	7×2.50/7×1.71	1.2/1.0	1.0	1.35	27.0	0.868/1.91	1031	500

Test voltage: 3.5 kv/5 min

0.6/1Kv Copper conductor,
PVC insulated, concentric neutral type, PVC sheathed,
power multicore cables (round type)

This cable is designed for the purpose of using,
in power line system up to 1000v.

Standard: IEC 60502-1 & ISIRI 3569-1
H1VCV-U H1VCV-R

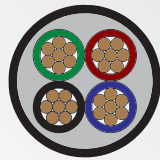
Number & Nominal area (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Filler thick-ness (mm)	Concentric copper construction		Sheath thick-ness (mm)	Approx overall dia. (mm)	Conductor resistance at 20°C (Ω/Km)	Approx. cable weight (Kg/Km)	Standard length (m)
				Wire (N-mm)	Tape (N-mm-mm)					
2×1.5+1.5	1×1.40	0.8	1.0	6×0.56	1×5×.1	1.35	12.0	12.1	221	1000
2×1.5+1.5	7×0.53	0.8	1.0	7×0.52	1×5×.1	1.35	12.4	12.1	234	1000
2×2.5+2.5	1×1.78	0.8	1.0	7×0.67	1×5×.1	1.35	13.0	7.41	269	1000
2×2.5+2.5	7×0.67	0.8	1.0	7×0.67	1×5×.1	1.35	13.5	7.41	285	1000
2×4+4	1×2.25	1.0	1.0	8×0.79	1×5×.1	1.35	15.0	4.61	360	1000
2×4+4	7×0.85	1.0	1.0	10×0.71	1×5×.1	1.35	15.4	4.61	387	1000
2×6+6	1×2.76	1.0	1.0	10×0.86	1×5×.1	1.35	16.2	3.08	453	1000
2×6+6	7×1.04	1.0	1.0	10×0.86	1×5×.1	1.35	16.9	3.08	481	1000
2×10+10	1×3.57	1.0	1.0	10×1.12	1×5×.1	1.35	18.3	1.83	577	1000
2×10+10	7×1.35	1.0	1.0	12×1.02	1×5×.1	1.35	19.1	1.83	658	1000
2×16+16	7×1.71	1.0	1.0	14×1.19	1×10×.1	1.35	21.6	1.15	905	1000
2×25+16	7×2.12	1.2	1.0	16×1.13	1×10×.1	1.35	24.9	0.727	1231	500
2×35+16	7×2.50	1.2	1.0	16×1.13	1×10×.1	1.35	27.2	0.524	1509	500
3×1.5+1.5	1×1.40	0.8	1.0	7×0.52	1×5×.1	1.35	12.4	12.1	244	1000
3×1.5+1.5	7×0.53	0.8	1.0	7×0.52	1×5×.1	1.35	12.8	12.1	260	1000
3×2.5+1.5	1×1.78	0.8	1.0	7×0.67	1×5×.1	1.35	13.5	7.41	303	1000
3×2.5+2.5	7×0.67	0.8	1.0	8×0.62	1×5×.1	1.35	13.9	7.41	319	1000
3×4+4	1×2.25	1.0	1.0	10×0.71	1×5×.1	1.35	15.5	4.61	415	1000
3×4+4	7×0.85	1.0	1.0	10×0.71	1×5×.1	1.35	16.1	4.61	440	1000
3×6+6	1×2.76	1.0	1.0	10×0.87	1×5×.1	1.35	16.9	3.08	523	1000
3×6+6	7×1.04	1.0	1.0	10×0.87	1×5×.1	1.35	17.6	3.08	551	1000
3×10+10	1×3.57	1.0	1.0	12×1.02	1×5×.1	1.35	19.0	1.83	724	1000
3×10+10	7×1.35	1.0	1.0	12×1.02	1×5×.1	1.35	19.9	1.83	766	1000
3×16+16	7×1.71	1.0	1.0	14×1.2	1×10×.1	1.35	22.7	1.15	1069	500
3×25+16	7×2.12	1.2	1.0	18×1.06	1×10×.1	1.35	26.1	0.727	1480	500
3×35+16	7×2.50	1.2	1.0	18×1.06	1×10×.1	1.35	28.5	0.524	1842	500
4×1.5+1.5	1×1.40	0.8	1.0	7×0.52	1×5×.1	1.35	13.1	12.1	274	1000
4×1.5+1.5	7×0.53	0.8	1.0	8×0.5	1×5×.1	1.35	13.6	12.1	295	1000
4×2.5+2.5	1×1.78	0.8	1.0	8×0.62	1×5×.1	1.35	14.3	7.41	346	1000
4×2.5+2.5	7×0.67	0.8	1.0	8×0.62	1×5×.1	1.35	15.3	7.41	368	1000
4×4+4	1×2.25	1.0	1.0	10×0.71	1×5×.1	1.35	16.6	4.61	481	1000
4×4+4	7×0.85	1.0	1.0	10×0.71	1×5×.1	1.35	17.3	4.61	511	1000
4×6+6	1×2.76	1.0	1.0	12×0.79	1×5×.1	1.35	18.0	3.08	610	1000
4×6+6	7×1.04	1.0	1.0	12×0.79	1×5×.1	1.35	18.9	3.08	647	1000
4×10+10	1×3.57	1.0	1.0	14×0.94	1×10×.1	1.35	20.3	1.83	854	1000
4×10+10	7×1.35	1.0	1.0	14×0.94	1×10×.1	1.35	21.4	1.83	905	1000
4×16+16	7×1.71	1.0	1.0	16×1.12	1×10×.1	1.35	24.3	1.15	1269	500
4×25+16	7×2.12	1.2	1.0	18×1.06	1×10×.1	1.35	28.5	0.727	1793	500
4×35+16	7×2.50	1.2	1.0	20×1.01	1×10×.1	1.35	31.2	0.524	2253	500
3×25/16+16	7×2.12/7×1.71	1.2/1.0	1.0	18×1.06	1×10×.1	1.35	27.6	0.727/1.15	1662	500
3×35/16+16	7×2.50/7×1.71	1.2/1.0	1.0	20×1.01	1×10×.1	1.35	27.7	0.524/1.15	2016	500

Test voltage: 3.5 kv/5 min

0.6/1Kv Copper conductor,
XLPE insulated and PVC sheathed
power multicore cables (round type)

It is used for lighting and power in residential
Commercial and industrial distribution line.

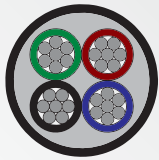
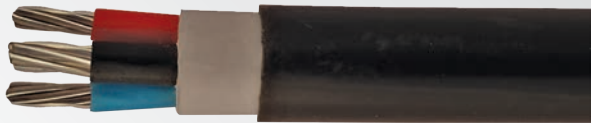
Standard: IEC 60502-1 & ISIRI 3569-1
H1ZV-U H1ZV-R



Number & Nominal area (mm²)	Construction Conductor (No-mm)	Insulation Thickness (mm)	Filler thick-ness (mm)	Sheath thick-ness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/Km)	Approx. cable weight (Kg/Km)	Standard length (m)
2×1.5	1×1.40	0.7	1.0	1.35	10.3	12.1	166	1000
2×1.5	7×0.53	0.7	1.0	1.35	10.7	12.1	178	1000
2×2.5	1×1.78	0.7	1.0	1.35	11.1	7.41	202	1000
2×2.5	7×0.67	0.7	1.0	1.35	11.5	7.41	213	1000
2×4	1×2.25	0.7	1.0	1.35	12.0	4.61	251	1000
2×4	7×0.85	0.7	1.0	1.35	12.6	4.61	268	1000
2×6	1×2.76	0.7	1.0	1.35	13.0	3.08	312	1000
2×6	7×1.04	0.7	1.0	1.35	13.7	3.08	332	1000
2×10	1×3.57	0.7	1.0	1.35	14.6	1.83	426	1000
2×10	7×1.35	0.7	1.0	1.35	15.6	1.83	459	1000
2×16	7×1.71	0.7	1.0	1.35	17.8	1.15	638	1000
2×25	7×2.15	0.9	1.0	1.35	21.2	0.727	932	500
2×35	7×2.52	0.9	1.0	1.35	23.4	0.524	1188	500
3×1.5	1×1.40	0.7	1.0	1.35	10.7	12.1	186	1000
3×1.5	7×0.53	0.7	1.0	1.35	11.2	12.1	199	1000
3×2.5	1×1.78	0.7	1.0	1.35	11.6	7.41	232	1000
3×2.5	7×0.67	0.7	1.0	1.35	12.1	7.41	245	1000
3×4	1×2.25	0.7	1.0	1.35	12.6	4.61	295	1000
3×4	7×0.85	0.7	1.0	1.35	13.2	4.61	310	1000
3×6	1×2.76	0.7	1.0	1.35	13.7	3.08	373	1000
3×6	7×1.04	0.7	1.0	1.35	14.5	3.08	397	1000
3×10	1×3.57	0.7	1.0	1.35	15.4	1.83	522	1000
3×10	7×1.35	0.7	1.0	1.35	16.5	1.83	558	1000
3×16	7×1.71	0.7	1.0	1.35	18.8	1.15	785	500
3×25	7×2.15	0.9	1.0	1.35	22.5	0.727	1163	500
3×35	7×2.52	0.9	1.0	1.35	24.9	0.524	1500	500
4×1.5	1×1.40	0.7	1.0	1.35	11.5	12.1	216	1000
4×1.5	7×0.53	0.7	1.0	1.35	11.9	12.1	226	1000
4×2.5	1×1.78	0.7	1.0	1.35	12.4	7.41	268	1000
4×2.5	7×0.67	0.7	1.0	1.35	13.0	7.41	284	1000
4×4	1×2.25	0.7	1.0	1.35	13.5	4.61	346	1000
4×4	7×0.85	0.7	1.0	1.35	14.3	4.61	369	1000
4×6	1×2.76	0.7	1.0	1.35	14.7	3.08	443	1000
4×6	7×1.04	0.7	1.0	1.35	15.6	3.08	469	1000
4×10	1×3.57	0.7	1.0	1.35	16.7	1.83	637	1000
4×10	7×1.35	0.7	1.0	1.35	17.9	1.83	675	1000
4×16	7×1.71	0.7	1.0	1.35	20.5	1.15	962	500
4×25	7×2.15	0.9	1.0	1.35	24.7	0.727	1440	500
4×35	7×2.52	0.9	1.0	1.35	27.4	0.524	1870	500
3×25/16	7×2.15/7×1.71	0.9/0.7	1.0	1.35	23.6	0.727/1.15	1318	500
3×35/16	7×2.52/7×1.71	0.9/0.7	1.0	1.35	25.6	0.524/1.15	1635	500

0.6/1Kv Aluminum conductor,
XLPE insulated and PVC sheathed
power multicore cables (round type)

It is used for lighting and power in residential,
Commercial and industrial distribution line.



Standard: IEC 60502-1 & ISIRI 3569-1
H1ZV-AU H1ZV-AR

Number & Nominal area (mm²)	Construction Conductor (No-mm)	Insulation thickness (mm)	Filler thick-ness (mm)	Sheath thick-ness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/Km)	Approx. cable weight (Kg/Km)	Standard length (m)
2×16	1×4.46	0.7	1.0	1.35	16.4	1.91	390	1000
2×16	7×1.71	0.7	1.0	1.35	17.8	1.91	442	1000
2×25	1×5.58	0.9	1.0	1.35	19.5	1.20	547	500
2×25	7×2.14	0.9	1.0	1.35	21.1	1.20	617	500
2×35	1×6.58	0.9	1.0	1.35	21.5	0.868	674	500
2×35	7×2.52	0.9	1.0	1.35	23.4	0.868	762	500
3×16	1×4.46	0.7	1.0	1.35	17.4	1.91	441	1000
3×16	7×1.71	0.7	1.0	1.35	18.8	1.91	491	1000
3×25	1×5.58	0.9	1.0	1.35	20.6	1.20	616	500
3×25	7×2.14	0.9	1.0	1.35	22.5	1.20	697	500
3×35	1×6.58	0.9	1.0	1.35	22.8	0.868	768	500
3×35	7×2.52	0.9	1.0	1.35	24.9	0.868	862	500
4×16	1×4.46	0.7	1.0	1.35	18.9	1.91	512	500
4×16	7×1.71	0.7	1.0	1.35	20.5	1.91	570	500
4×25	1×5.58	0.9	1.0	1.35	22.6	1.20	729	500
4×25	7×2.14	0.9	1.0	1.35	24.6	1.20	814	500
4×35	1×6.58	0.9	1.0	1.35	25.0	0.868	909	500
4×35	7×2.52	0.9	1.0	1.35	27.4	0.868	1019	500
3×25/16	7×2.14/7×1.71	0.9/0.7	1.0	1.35	23.6	1.20/1.91	752	500
3×35/16	7×2.52/7×1.71	0.9/0.7	1.0	1.35	25.6	0.868/1.91	899	500

Test voltage: 3.5 kv/5 min

0.6/1Kv Aluminum conductor,
PVC insulated and sheathed power cables
(sector type)

It is used for power in residential, commercial
and industrial distribution line.



Standard: IEC 60502-1 & ISIRI 3569-1
H1VV-AS



Number& nominal area (mm ²)	Construction Conductor (No-mm)	Insulation thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. ca- ble weight (kg/km)	Standard length (m)
3×50	19×1.83	1.4	1.8	25.8	0.641	831	500
3×70	19×2.17	1.4	1.9	28.9	0.443	1052	500
3×95	37×1.83	1.6	2.1	33.2	0.320	1436	500
3×120	37×2.05	1.6	2.2	36.1	0.253	1716	500
3×150	37×2.28	1.8	2.3	40.1	0.206	2099	500
3×185	37×2.53	2.0	2.4	44.1	0.164	2524	500
3×240	37×2.91	2.2	2.6	49.8	0.125	3265	500
3×50/25	19×1.83/7×2.15	1.4/1.2	1.9	27.4	0.641/1.20	928	500
3×70/35	19×2.17/7×2.52	1.4/1.2	2.0	30.6	0.443/0.868	1189	500
3×95/50	37×1.83/19×1.83	1.6/1.4	2.2	35.2	0.320/0.641	1637	500
3×120/70	37×2.05/19×2.17	1.6/1.4	2.3	38.2	0.253/0.443	1986	500
3×150/70	37×2.28/19×2.17	1.8/1.4	2.4	41.6	0.206/0.443	2361	500
3×185/95	37×2.53/19×1.83	2.0/1.6	2.6	45.8	0.164/0.320	2887	500
3×240/120	37×2.91/37×2.05	2.2/1.6	2.8	52.0	0.125/0.253	3726	500
4×50	19×1.83	1.4	1.9	29.4	0.641	1093	500
4×70	19×2.17	1.4	2.1	33.4	0.443	1403	500
4×95	37×1.83	1.6	2.2	37.3	0.320	1884	500
4×120	37×2.05	1.6	2.3	41.6	0.253	2266	500
4×150	37×2.28	1.8	2.5	46.6	0.206	2796	500
4×185	37×2.53	2.0	2.7	51.5	0.164	3385	500
4×240	37×2.91	2.2	2.9	57.9	0.125	4370	500

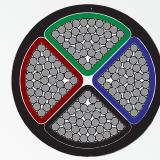
Test voltage: 3.5 kv/5 min

0.6/1Kv Aluminum conductor,
XLPE insulated and PVC sheathed
power multicore cables (round type)

It is used for lighting and power in residential,
Commercial and industrial distribution line.



Standard: IEC 60502-1 & ISIRI 3569-1
H1ZV-AU H1ZV-AR

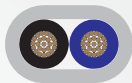


Number & Nominal area (mm ²)	Construction Conductor (No-mm)	Insulation thickness (mm)	Filler thick- ness (mm)	Sheath thick- ness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/Km)	Approx. cable weight (Kg/Km)	Standard length (m)
2×16	1×4.46	0.7	1.0	1.35	16.4	1.91	390	1000
2×16	7×1.71	0.7	1.0	1.35	17.8	1.91	442	1000
2×25	1×5.58	0.9	1.0	1.35	19.5	1.20	547	500
2×25	7×2.14	0.9	1.0	1.35	21.1	1.20	617	500
2×35	1×6.58	0.9	1.0	1.35	21.5	0.868	674	500
2×35	7×2.52	0.9	1.0	1.35	23.4	0.868	762	500
3×16	1×4.46	0.7	1.0	1.35	17.4	1.91	441	1000
3×16	7×1.71	0.7	1.0	1.35	18.8	1.91	491	1000
3×25	1×5.58	0.9	1.0	1.35	20.6	1.20	616	500
3×25	7×2.14	0.9	1.0	1.35	22.5	1.20	697	500
3×35	1×6.58	0.9	1.0	1.35	22.8	0.868	768	500
3×35	7×2.52	0.9	1.0	1.35	24.9	0.868	862	500
4×16	1×4.46	0.7	1.0	1.35	18.9	1.91	512	500
4×16	7×1.71	0.7	1.0	1.35	20.5	1.91	570	500
4×25	1×5.58	0.9	1.0	1.35	22.6	1.20	729	500
4×25	7×2.14	0.9	1.0	1.35	24.6	1.20	814	500
4×35	1×6.58	0.9	1.0	1.35	25.0	0.868	909	500
4×35	7×2.52	0.9	1.0	1.35	27.4	0.868	1019	500
3×25/16	7×2.14/7×1.71	0.9/0.7	1.0	1.35	23.6	1.20/1.91	752	500
3×35/16	7×2.52/7×1.71	0.9/0.7	1.0	1.35	25.6	0.868/1.91	899	500

Test voltage: 3.5 kv/5 min

300v, Copper conductor, PVC insulated and sheathed, tow core flexible cables

It is used for wiring of electronic devices and electrical apparatus up to 300v grade



Standard: IEC 60227 & ISIRI 607-52
H03VVH2-F

Nominal Area (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Sheath thickness (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
2×0.5	16×0.19	0.5	0.6	39	29.2	100
2×0.75	24×0.19	0.5	0.6	26	37.0	100

Test voltage: 1.5kv/5 min

500v, Copper conductor, PVC insulated and sheathed, tow core flexible cables

It is used for wiring of electronic devices and electrical apparatus up to 500v grade



Standard: IEC 60227 & ISIRI 607-53
H05VVH2-F

Nominal Area (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Sheath thickness (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
2×1.0	32×0.19	0.6	0.8	19.5	46.5	100
2×1.5	30×0.24	0.7	0.8	13.3	63.8	100
2×2.5	50×0.24	0.8	1.0	7.98	88.2	100

Test voltage: 2kv/5 min

300/500v Copper conductor, PVC insulated and sheathed, flexible cables

It is used for indoor distribution line or wiring of electrical apparatus up to 500v grade.



Standard: IEC 60227 & ISIRI 607-5
H05VV-F

Nominal Area (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
2×0.5	16×0.19	0.6	0.6	5.5	39	49.5	1000
2×0.75	24×0.19	0.6	0.8	6.5	26	55.3	1000
2×1.0	32×0.19	0.6	0.8	6.7	19.5	63.4	1000
2×1.5	30×0.24	0.7	0.8	7.8	13.3	90.0	1000
2×2.5	50×0.24	0.8	1.0	9.6	7.98	135.3	1000
3×0.5	16×0.19	0.6	0.6	5.75	39	57.5	1000
3×0.75	24×0.19	0.6	0.8	6.6	26	65.4	1000
3×1.0	32×0.19	0.6	0.8	7.0	19.5	77.0	1000
3×1.5	30×0.24	0.7	0.9	8.3	13.3	106.0	1000
3×2.5	50×0.24	0.8	1.1	10.3	7.98	174.0	1000
4×0.75	24×0.19	0.6	0.8	7.0	26	74.9	1000
4×1.0	32×0.19	0.6	0.9	7.9	19.5	97.9	1000
4×1.5	30×0.24	0.7	1.0	9.4	13.3	142.7	1000
4×2.5	50×0.24	0.8	1.1	11.3	7.98	212.7	1000
5×0.75	24×0.19	0.6	0.9	8.1	26	97.5	1000
5×1.0	32×0.19	0.6	0.9	8.6	19.5	115.0	1000
5×1.5	30×0.24	0.7	1.1	10.7	13.3	181.6	1000
5×2.5	50×0.24	0.8	1.2	12.5	7.98	249.0	1000

Test voltage: : 2kv/5 min

450/750v & 0.6/1Kv Copper conductor, PVC insulated and sheathed, flexible cables

This cable is generally used for connecting portable electric apparatus up to 1kv as power source lead wire in factory, mine and farm.



Standard: IEC 60227 & ISIRI 607-6 & ISIRI 607-71C & ISIRI 3569-1
H07VV-F & H1VV-F

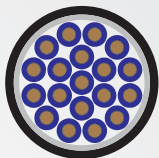
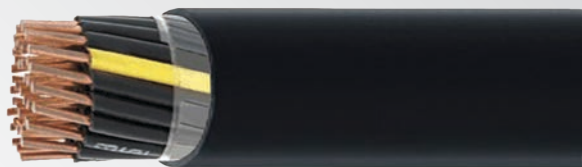


Nominal Area (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
4×2	0.30×50	0.8	1.1	10.6	4.95	186	1000
6×2	0.30×75	0.8	1.2	12.0	3.30	251	1000
10×2	0.30×135	1.0	1.35	16.0	1.91	408	1000
16×2	7×(30×0.30)	1.0	1.35	19.0	1.21	643	1000
4×3	0.30×50	0.8	1.2	11.8	4.95	239	1000
6×3	0.30×75	0.8	1.3	13.3	3.30	327	1000
10×3	0.30×135	1.0	1.35	17.0	1.91	544	1000
16×3	7×(30×0.30)	1.0	1.35	19.4	1.21	856	500
4×4	0.30×50	0.8	1.2	13.0	4.95	298	1000
6×4	0.30×75	0.8	1.35	14.7	3.30	407	1000
10×4	0.30×135	1.0	1.35	18.6	1.91	697	1000
16×4	7×(30×0.30)	1.0	1.35	21.3	1.21	992	500
5×4	0.30×50	0.8	1.2	14.1	4.95	366	1000
6×5	0.30×75	0.8	1.35	16.0	3.30	525	1000
10×5	0.30×135	1.0	1.35	20.1	1.91	838	1000
16×5	7×(30×0.30)	1.0	1.35	25.7	1.21	1222	500

Test voltage: 3.5 kv/5 min

0.6/1Kv Copper conductor, PVC insulated and sheathed, control cables

This cable is designed for using in remote control system up to 1000v in power plant and substation



Standard: IEC 60502-1 & ISIRI 3569-1
H1VV-U

Number & Nominal area (mm²)	Construction conductor No-mm	Insulation thickness (mm)	Filler thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. weight (kg/km)	Standard length (m)
5×1.5	1×1.40	0.8	1.0	1.35	12.8	12.1	267	1000
7×1.5	1×1.40	0.8	1.0	1.35	13.7	12.1	323	1000
10×1.5	1×1.40	0.8	1.0	1.35	16.7	12.1	463	1000
12×1.5	1×1.40	0.8	1.0	1.35	17.2	12.1	503	1000
14×1.5	1×1.40	0.8	1.0	1.35	18.0	12.1	551	1000
16×1.5	1×1.40	0.8	1.0	1.35	18.8	12.1	606	1000
19×1.5	1×1.40	0.8	1.0	1.35	19.7	12.1	683	500
24×1.5	1×1.40	0.8	1.0	1.35	22.7	12.1	885	500
30×1.5	1×1.40	0.8	1.0	1.35	24.0	12.1	1005	500
37×1.5	1×1.40	0.8	1.0	1.35	25.7	12.1	1178	500
5×2.5	1×1.78	0.8	1.0	1.35	13.9	7.41	339	1000
7×2.5	1×1.78	0.8	1.0	1.35	14.9	7.41	418	1000
10×2.5	1×1.78	0.8	1.0	1.35	18.3	7.41	605	1000
12×2.5	1×1.78	0.8	1.0	1.35	18.9	7.41	662	1000
14×2.5	1×1.78	0.8	1.0	1.35	19.7	7.41	735	1000
16×2.5	1×1.78	0.8	1.0	1.35	20.7	7.41	812	1000
19×2.5	1×1.78	0.8	1.0	1.35	21.7	7.41	921	500
24×2.5	1×1.78	0.8	1.0	1.35	25.1	7.41	1196	500
30×2.5	1×1.78	0.8	1.0	1.35	26.5	7.41	1377	500
37×2.5	1×1.78	0.8	1.0	1.35	28.7	7.41	1640	500
5×4	1×2.25	1.0	1.0	1.35	16.3	4.61	479	1000
7×4	1×2.25	1.0	1.0	1.35	17.6	4.61	601	1000
10×4	1×2.25	1.0	1.0	1.35	21.9	4.61	884	1000
12×4	1×2.25	1.0	1.0	1.35	22.6	4.61	974	1000
14×4	1×2.25	1.0	1.0	1.35	23.7	4.61	1084	1000
16×4	1×2.25	1.0	1.0	1.35	24.9	4.61	1200	500
19×4	1×2.25	1.0	1.0	1.35	26.2	4.61	1372	500
24×4	1×2.25	1.0	1.2	1.35	30.6	4.61	1843	500
30×4	1×2.25	1.0	1.2	1.35	32.7	4.61	2143	500
37×4	1×2.25	1.0	1.2	1.35	35.2	4.61	2560	500

Test voltage: 3.5 kv/5 min

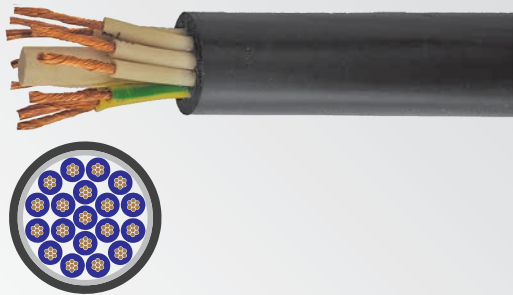
0.6/1Kv Copper conductor,
PVC insulated and sheathed, control cables

This cable is designed for using in remote control
System up to 1000v in power plant and substatio

Standard: IEC 60502-1 & ISIRI 3569-1
H1VV-R

Number & Nominal area (mm²)	Construction conductor No-mm	Insulation thickness (mm)	Filler thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. weight (kg/km)	Standard length (m)
5×1.5	7×0.53	0.8	1.0	1.35	13.4	12.1	286	1000
7×1.5	7×0.53	0.8	1.0	1.35	14.3	12.1	345	1000
10×1.5	7×0.53	0.8	1.0	1.35	17.5	12.1	498	1000
12×1.5	7×0.53	0.8	1.0	1.35	18.0	12.1	539	1000
14×1.5	7×0.53	0.8	1.0	1.35	18.8	12.1	593	1000
16×1.5	7×0.53	0.8	1.0	1.35	19.8	12.1	652	1000
19×1.5	7×0.53	0.8	1.0	1.35	20.7	12.1	735	500
24×1.5	7×0.53	0.8	1.0	1.35	23.9	12.1	954	500
30×1.5	7×0.53	0.8	1.0	1.35	25.2	12.1	1083	500
37×1.5	7×0.53	0.8	1.0	1.35	27.1	12.1	1271	500
5×2.5	7×0.67	0.8	1.0	1.35	14.5	7.41	359	1000
7×2.5	7×0.67	0.8	1.0	1.35	15.6	7.41	442	1000
10×2.5	7×0.67	0.8	1.0	1.35	19.2	7.41	644	1000
12×2.5	7×0.67	0.8	1.0	1.35	19.7	7.41	703	1000
14×2.5	7×0.67	0.8	1.0	1.35	20.7	7.41	779	1000
16×2.5	7×0.67	0.8	1.0	1.35	21.7	7.41	859	1000
19×2.5	7×0.67	0.8	1.0	1.35	22.8	7.41	975	500
24×2.5	7×0.67	0.8	1.0	1.35	26.4	7.41	1272	500
30×2.5	7×0.67	0.8	1.0	1.35	27.9	7.41	1459	500
37×2.5	7×0.67	0.8	1.0	1.35	30.2	7.41	1736	500
5×4	7×0.85	1.0	1.0	1.35	17.0	4.61	510	1000
7×4	7×0.85	1.0	1.0	1.35	18.4	4.61	637	1000
10×4	7×0.85	1.0	1.0	1.35	22.9	4.61	943	1000
12×4	7×0.85	1.0	1.0	1.35	23.7	4.61	1037	1000
14×4	7×0.85	1.0	1.0	1.35	24.8	4.61	1151	1000
16×4	7×0.85	1.0	1.0	1.35	26.1	4.61	1277	500
19×4	7×0.85	1.0	1.0	1.35	27.5	4.61	1463	500
24×4	7×0.85	1.0	1.2	1.35	32.4	4.61	1962	500
30×4	7×0.85	1.0	1.2	1.35	34.3	4.61	2275	500
37×4	7×0.85	1.0	1.2	1.35	37.0	4.61	2709	500

Test voltage: 3.5 kv/5 min



450/750v & 300/500v Copper conductor,
PVC insulated and sheathed, flat cables

This type of cables are used to transmit electrical signals and are often used in mechanical equipment that has a continuous linear movement back and forth. A certain size of it is also commonly used in elevator systems.

Standard: ISIRI 3084 & ISIRI 607-6
H07VV-F H05VV-F

Number & Nominal area (mm²)	Construction conductor NO-mm	Insulation thickness (mm)	Sheath thickness (mm)	Conductor resistance at 20°C (Ω/km)	Approx. Weight (kg/km)	Standard length (m)
6×0.75	24×0.19	0.6	0.9-1.5	26.0	156	500
9×0.75	24×0.19	0.6	0.9-1.5	26.0	228	500
12×0.75	24×0.19	0.6	0.9-1.5	26.0	286	500
20×0.75	24×0.19	0.6	0.9-1.5	26.0	442	500
24×0.75	24×0.19	0.6	0.9-1.5	26.0	507	500
6×1	32×0.19	0.6	0.9-1.5	19.5	174	500
9×1	32×0.19	0.6	0.9-1.5	19.5	255	500
12×1	32×0.19	0.6	0.9-1.5	19.5	322	500
20×1	32×0.19	0.6	0.9-1.5	19.5	502	500
24×1	32×0.19	0.6	0.9-1.5	19.5	600	500
4×1.5	30×0.24	0.7	1.0-1.5	13.3	208	500
5×1.5	30×0.24	0.7	1.0-1.5	13.3	246	500
6×1.5	30×0.24	0.7	1.0-1.5	13.3	284	500
9×1.5	30×0.24	0.7	1.0-1.5	13.3	398	500
12×1.5	30×0.24	0.7	1.0-1.5	13.3	512	500
4×2.5	50×0.24	0.8	1.0-1.8	7.98	312	500
5×2.5	50×0.24	0.8	1.0-1.8	7.98	369	500
6×2.5	50×0.24	0.8	1.0-1.8	7.98	426	500
9×2.5	50×0.24	0.8	1.0-1.8	7.98	597	500
12×2.5	50×0.24	0.8	1.0-1.8	7.98	768	500

Test voltage: 2.5 kv/5 min



450/750v Copper conductor,
PVC & TPE insulated cables
(flexible)

This type of cables has high flexibility and are specially used for electric arc welding system.

Standard: ISIRI 3084
H07V-K H07V-F



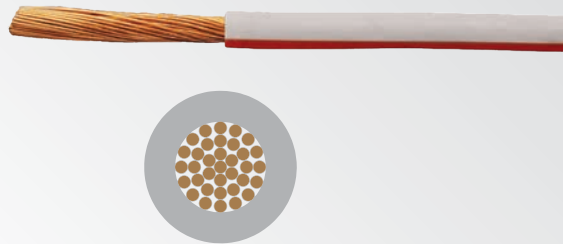
Insulation	Number & Nominal area (mm²)	Construction conductor NO-mm	Insulation thickness (mm)	Sheath thickness (mm)	Conductor resistance at 20°C (Ω/km)	Approx. Weight (kg/km)	Standard length (m)
PVC	16	19× (21×0.213)	2.0	9.5	1.21	218	500
	25	19× (33×0.213)	2.0	11.5	0.780	318	500
	35	19× (46×0.213)	2.0	13.5	0.554	437	500
	50	19× (54×0.235)	2.2	15.5	0.386	607	500
	70	19× (76×0.235)	2.4	17.5	0.272	798	500
	95	37× (52×0.235)	2.6	19.5	0.206	1057	500
TPE	16	19× (21×0.213)	2.0	9.5	1.21	218	500
	25	19× (33×0.213)	2.0	11.5	0.780	318	500
	35	19× (46×0.213)	2.0	13.5	0.554	437	500
	50	19× (54×0.235)	2.2	15.5	0.386	607	500
	70	19× (76×0.235)	2.4	17.5	0.272	798	500
	95	37× (52×0.235)	2.6	19.5	0.206	1057	500

Test voltage: 2.5 kv/5 min

Copper conductor, PVC-T1
insulated automotive wires

It is used for wiring inside cars. The insulation used in the structure of automotive wires has a high working temperature

Standard: ISIRI 2701
(PSA PEUGEOT CITROEN)

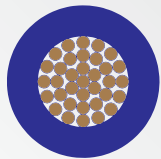


automotive wires (Av)

Nominal size (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
0.5	16×0.2	0.5	2.2	37.10	9	100
0.5	7×0.3	0.6	2.2	37.10	9	100
0.65	9×0.3	0.6	2.5	29.35	11	100
0.7	14×0.25	0.6	2.5	27.15	11	100
0.8	11×0.3	0.6	2.5	24.00	13	100
1.0	14×0.3	0.6	2.7	18.84	15	100
1.5	21×0.3	0.6	3.1	12.57	21	100
2.0	28×0.3	0.6	3.4	9.42	26	100
2.5	35×0.3	0.7	3.8	7.54	33	100
3.0	44×0.3	0.8	4.2	6.00	41	100
4.0	56×0.3	0.9	4.6	4.71	52	100
4.5	65×0.3	1.0	5.1	4.06	61	100
6.0	84×0.3	1.0	5.9	3.14	80	100
7.0	97×0.3	1.0	6.2	2.72	92	100
8.0	120×0.3	1.2	7.0	2.20	106	100
10.0	80×0.4	1.3	7.5	1.82	121	100

Copper conductor, PVC-T2 insulated automotive wires

It is used for wiring inside cars. The insulation used in the structure of automotive wires has a high working temperature
Standard: JASO D 611-94

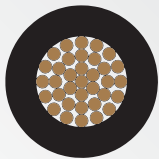


automotive wires (Avs)

Nominal size (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
0.3	7×0.26	0.5	1.8	50.2	7	100
0.5	7×0.32	0.5	2.0	32.7	9	100
0.85	16×0.26	0.5	2.2	22.0	15	100
1.25	16×0.32	0.5	2.5	14.3	19	100
2.0	26×0.32	0.5	2.9	8.81	24	100
3.0	41×0.32	0.6	3.6	5.59	36	100
5.0	65×0.32	0.7	4.4	3.52	46	100
0.3f	15×0.18	0.5	1.8	48.9	7	100
0.5f	20×0.18	0.5	2.0	36.7	9	100
0.75f	30×0.18	0.5	2.2	24.4	15	100
1.25f	50×0.18	0.5	2.5	14.7	19	100
2.0f	37×0.26	0.5	2.9	9.5	24	100

Copper conductor, PVC-T3 insulated automotive wires

It is used for wiring inside cars. The insulation used in the structure of automotive wires has a high working temperature.
Standard: JASO D 611-94



automotive wires (Avss)

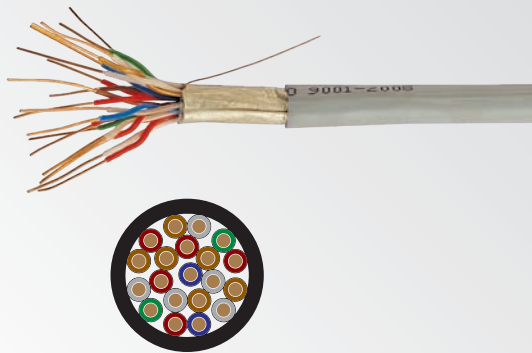
Nominal size (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
0.3	0.26×7	0.3	1.4	50.2	5	100
0.5	0.32×7	0.3	1.6	32.7	7	100
0.85	0.24×19	0.3	1.8	21.7	10	100
1.25	0.29×19	0.3	2.1	14.9	14	100
2.0	0.37×19	0.4	2.7	9.0	21	100
0.3f	0.16×19	0.3	1.4	48.8	5	100
0.5f	0.19×19	0.3	1.6	34.6	7	100
0.75f	0.23×19	0.3	1.8	23.6	10	100
1.25f	0.21×37	0.3	2.1	14.6	14	100
2.0f	0.26×37	0.4	2.6	9.5	21	100

Remark: The symbol “f” in column “Nominal size” means flexible conductor.

Copper & CCAM conductor,
PE insulated and PVC sheathed,
communication cables

This cable is designed for using indoor and are used to transmit analog and digital signals in telephone and fax machines, fire alarm systems and other telecommunication equipment

Standard: ISIRI 463

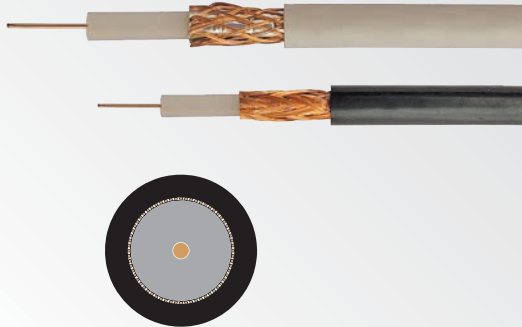


Conductor	Number & Nominal area (mm²)	Insulation thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Approx. Weight (kg/km)	Standard length (m)
CU	2×2×0.6	0.2	0.6	3.5	22.5	500
	4×2×0.6	0.2	0.6	5.0	43.4	500
	6×2×0.6	0.2	0.6	5.7	59.5	500
	10×2×0.6	0.2	0.6	7.2	90.7	500
	20×2×0.6	0.2	0.6	10.1	175.0	500
CCAM	2×2×0.6	0.2	0.6	3.5	15.6	500
	4×2×0.6	0.2	0.6	5.0	28.1	500
	6×2×0.6	0.2	0.6	5.7	36.2	500
	10×2×0.6	0.2	0.6	7.2	52.8	500
	20×2×0.6	0.2	0.6	10.1	98.1	500

Copper & tinned copper conductor,
foam PE insulated,
AL foil & braid of copper wire Shielded,
PVCsheathed,Coaxial cables

These types of cables are a suitable transmission channel for sending high frequency electrical signals. And they are used for different applications such as transmitter and receiver systems, computers, CCTV cameras.

Standard: JIS C-3501 & MIL-C-17



Impedance: 50Ω & 75 Ω

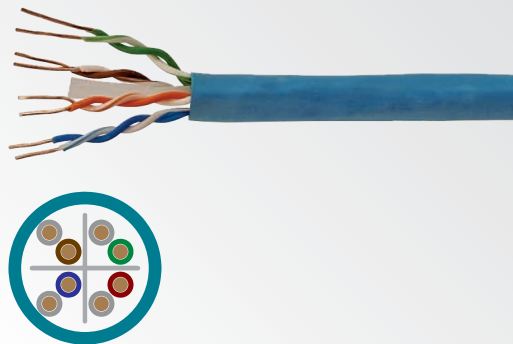
Number & Nominal area (mm²)	Conductor	Construction conductor (No-mm)	Nominal diameter. After insulating (mm)	Impedance (Ω)	Standard Attenuation In 10 MHZ (db/Km)	Approx. overall diameter (mm)	Approx. cable weight (Kg/Km)	Standard length (m)
2.5C-2V	copper	1×0.4	2.5	75	52	4	23	500
3C-2V	copper	1×0.5	3	75	42	5.5	41	500
4.5C-2V	copper	1×1.0	4.5	75	22	6.5	44	500
5C-2V	copper	1×0.8	5	75	27	7.5	72	500
5C-2W	copper	1×0.8	5	75	27	8.4	101	500
RG-6	copper	1×1.0	4.3	75	8.8	6.7	54	500
RG-8	copper	1×0.72	6.4	50	8	9.5	128	500
RGa11	Tinned cu	1×0.4	7.3	75	7.5	10.3	120	500
RG-58	Tinned cu	1×0.18	2.95	50	17	5	38	500
RG-59	copper	1×0.60	3.7	75	11.5	6.2	57	500

Shielded & Unshielded
Twisted-Pair Network Cables (CAT6)

This cable is designed for These types of cables are used to transmit digital information in computer systems and local networks. And according to the frequency bandwidth, they are classified and introduced to the consumer under the title of CAT6. CAT6 network cable has the ability to transmit information in high-speed networks, up to 10Gbps.
Standard: TIA/EAI-568C.2

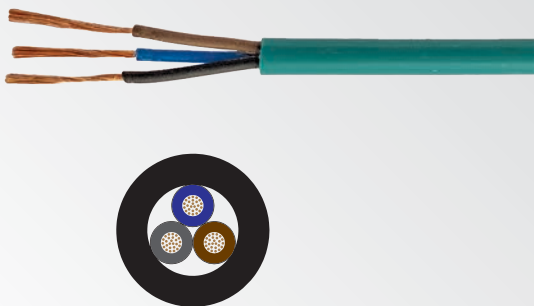
Impedance: 100Ω
Bandwidth: 250MHz

Network cable type	Conductor (Solid Bare Copper) (AWG)	Insulation thickness (HDPE) (mm)	Drain wire (mm)	Shielding Copper braided (N×mm)	Sheath thickness (PVC) (mm)	Approx. overall diameter (mm)	Standard length (m)
U/UTP	23	0.22	-	-	0.5	6.3	500
U/FTP	23	0.22	-	-	0.5	6.6	500
F/UTP	23	0.22	0.4	-	0.5	6.4	500
S/UTP	23	0.22	-	0.1×48	0.6	7.7	500
SF/UTP	23	0.22	0.4	0.1×48	0.6	7.8	500
F/FTP	23	0.22	0.4	-	0.6	7.4	500
S/FTP	23	0.22	-	0.1×48	0.7	8.2	500
S/STP	23	0.22	-	0.1×0.1-24×48	0.7	9.3	500
SF/FTP	23	0.22	0.4	0.1×48	0.7	8.3	500



Copper conductor, PVC & PE insulated and
PVC sheathed, sensor cables

These cables are designed to transmit analog electrical signals. They have high curvature and are generally used in sensors.



Nominal area (mm²)	Construction conductor (No-mm)	Insulation thickness (mm)	Sheath thickness (mm)	Approx. overall diameter (mm)	Conductor resistance at 20°C (Ω/km)	Approx. cable weight (kg/km)	Standard length (m)
2×0.125*	10×0.111	0.10	1.0	4.0	152	12	100
2×0.25	25×0.111	0.35	1.0	4.7	78	25	100
2×0.35	35×0.111	0.40	1.0	5.2	56	29	100
3×0.125*	10×0.111	0.10	1.0	4.3	152	14	100
3×0.25	25×0.111	0.35	1.0	5.1	78	28	100
3×0.35	35×0.111	0.40	1.0	5.7	56	34	100

* Only with PE insulation

Overhead Copper wire



This wire is used on relatively short spans, particularly low and medium voltage distribution line,in more severe weather conditions.



Standard: BS 7884

Nominal area (mm²)	Construction conductor No-mm	Overall diameter (mm)	Approx. conductor weight (mm)	Conductor resistance at 20°C (Ω/km)	Minimum breaking (KN)
10	7×1.35	4.05	90	1.806	4.1
16	7×1.70	5.1	143	1.1385	6.5
25	7×2.10	6.3	219	0.7461	9.9
35	7×2.50	7.5	310	0.5264	14.0
50	7×3.0	9.0	447	0.3656	20.2
50	19×1.78	8.9	438	0.3759	19.8
70	19×2.10	10.5	597	0.2762	26.9
95	19×2.50	12.5	846	0.1949	38.1
120	19×2.80	14.0	1061	0.1554	47.8
150	37×2.25	15.7	1337	0.1238	60.1
185	37×2.50	17.5	1651	0.1003	74.2
240	61×2.25	20.2	2208	0.0753	99.1

Overhead all Aluminum conductor (AAC)



This wire is used on relatively short spans,particularly low and medium voltage distribution line.



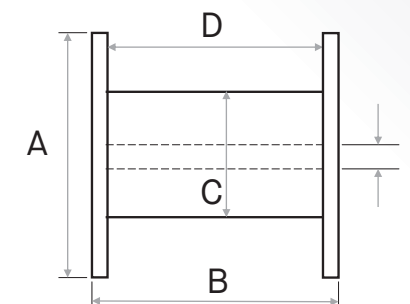
Standard: EN 50182 & DIN 48201

Area (mm²)	Construction conductor (No-mm)	Overall dimeter (mm)	Approx. conductor weight (kg/km)	Conductor resistance at 20°C (Ω/km)	Minimum breaking load (KN)
16	7×1.70	5.1	44	1.8017	2842
25	7×2.10	6.3	67	1.1806	4165
35	7×2.50	7.5	94	0.8332	5733
50	7×3.00	9.0	135	0.5786	7938
50	19×1.80	9.0	133	0.5948	8428
70	19×2.10	10.5	181	0.4370	11270
95	19×2.50	12.5	256	0.3084	15631
120	19×2.80	14.0	322	0.2459	18718
150	37×2.25	15.7	406	0.1960	25186
185	37×2.50	17.5	501	0.1588	30429
240	61×2.25	20.2	670	0.1192	39347
300	61×2.50	22.5	827	0.0965	47530
400	61×2.89	26.0	1105	0.0722	60662
500	61×3.23	29.1	1381	0.0578	74480

Appendix

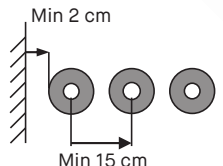
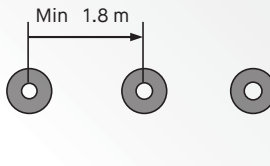
1. Cable standard drums
2. Calculated conditions
3. Correction factors for cables installation
4. Cables Maximum current capacity
5. Correction factors for ambient temperature
6. Voltage Drop Table

Cable standard drums



Drum No.	Standard drums dimension				
	A	B	C	D	E
6	60	45	29	37	7.5
7	70	58	32.5	50	8
8	80	60	37.5	50	8
9	90	65	42.5	55	8
10	100	75	46	63	8
11	110	79	51	67	8
12	120	92	59	80	8
14	140	98	76	84	8
16	160	114	92	100	11
18	180	121	100	105	11
20	200	121	140	105	11
22	220	125	140	105	11
24	240	157	160	137	11

Calculated conditions

Method laying	In air	Underground
Ambient temperature (°C)	30	15
Soil thermal resistivity (Km/W)	----	1.20
Depth of ground (m)	----	0.5
Layout of cable		

Correction factors for group installation of single core cables underground

Number of cable	Spacing the center of group cables					
	Contact with together		0.15 (m)	0.30 (m)	0.45 (m)	0.60 (m)
	Triangle	Flat				
2	0.77	0.8	0.82	0.88	0.9	0.93
3	0.65	0.68	0.72	0.79	0.83	0.87
4	0.59	0.63	0.67	0.75	0.81	0.85
5	0.55	0.58	0.63	0.72	0.78	0.83
6	0.52	0.56	0.6	0.7	0.77	0.82

Correction factors for group installation of multicore cables underground (horizontal)

Number of cable	Spacing the center of group cables				
	Contact with together	0.15 (m)	0.30 (m)	0.45 (m)	0.60 (m)
2	0.81	0.87	0.91	0.93	0.94
3	0.7	0.78	0.84	0.87	0.9
4	0.63	0.74	0.81	0.86	0.89
5	0.59	0.7	0.78	0.83	0.87
6	0.55	0.67	0.76	0.82	0.86

Maximum current carrying capacity 0.6/1kv PVC insulated cables

Copper conductor

Nominal area (mm²)	In air 30°C				Underground 15°C			
	Single core		Two cores (A)	3 or 4 cores (A)	Single core		Two cores (A)	3 or 4 cores (A)
	Triangle (A)	Flat (A)			Triangle (A)	Flat (A)		
16			94	80			117	100
25			119	101			157	131
35			148	126			189	158
50	167	219	180	153	200	210	225	188
70	216	281	232	196	246	258	276	231
95	264	341	282	238	294	310	332	277
120	308	396	328	276	335	354	379	316
150	356	456	379	319	376	397	425	355
185	409	521	434	364	424	451	480	401
240	485	615	514	430	491	524	559	466
300	561	709	593	497	553	594	631	525
400	656	852	715	597	627	679	718	595

Aluminum conductor

16			73	61			89	76
25			89	78			118	100
35			111	96			142	120
50	128	163	135	117	152	160	169	143
70	165	210	173	150	187	197	209	176
95	203	256	210	183	224	236	250	211
120	237	298			212	256		241
150	274	344		245	287	302		271
185	316	394		280	325	343		307
240	375	466		330	377	399		357
300	435	538		381	426	453		404

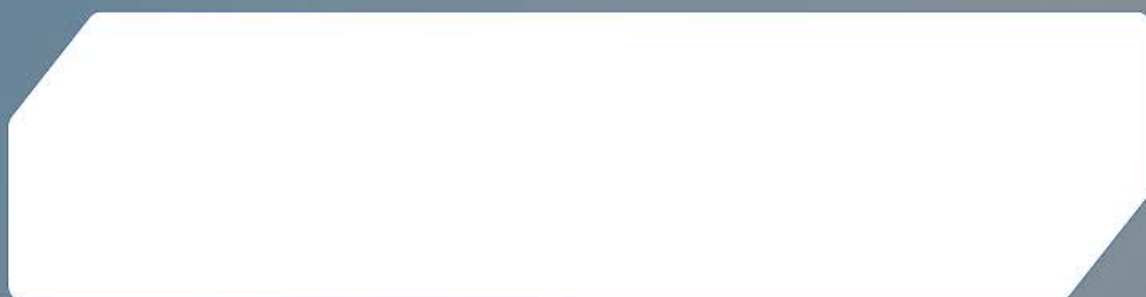
Correction factors for ambient temperature

Temperature (°C)	Direct buried or in duct	In air
10	1.04	1.22
15	1	1.17
20	0.95	1.12
25	0.9	1.06
30	0.85	1
35	0.8	0.94
40	0.74	0.87
45	0.67	0.79

Voltage Drop Table

size mm ²	AL					16	25	50	70	95	120	150	185	240	300	400	500
	Cu	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Power Kw	Current A																
1	1.7	363	650	968	1452												
2	3.4	181	302	484	726	1210											
3	5.1	121	202	323	484	806	1290										
4	6.8	91	151	242	363	605	968	1512									
5	8.5	73	121	194	290	484	774	1210									
6	10	60	101	161	242	403	645	1008									
7	12	52	86	138	207	346	553	864	1210								
8	14	45	76	121	181	302	484	756	1058								
9	15	40	67	108	161	269	430	672	941	1344							
10	17	36	60	97	145	242	387	605	847	1210							
12	20	30	50	81	121	202	323	504	706	1008							
14	24	26	43	69	104	173	276	432	605	864	1210						
16	27		38	60	91	151	242	378	529	756	1058						
18	30		34	54	81	134	215	336	470	672	941	1277					
20	34		30	48	73	121	194	302	423	605	847	1149					
25	42			39	58	97	155	242	339	484	677	919	1161				
30	51				48	81	129	202	282	403	565	766	968	1210			
35	59				41	69	111	173	242	346	484	657	829	1037			
40	68					60	97	151	212	302	423	575	726	907	1119		
45	76					54	86	134	188	269	376	511	645	806	995		
50	85						77	121	169	242	339	460	581	726	895	1161	
60	101						65	101	141	202	282	383	484	605	746	968	1210
70	118							86	121	173	242	328	415	518	639	829	1037
80	135							76	106	151	212	287	363	454	559	726	907
90	152								94	134	188	255	323	403	497	645	806
100	169								85	121	169	230	290	363	448	581	726
120	203									101	141	192	242	302	373	484	605
140	237											121	164	207	259	320	415
160	270												144	181	227	280	363
180	304												128	161	202	249	323
200	338													145	181	224	290
225	380														161	199	258
250	423														145	179	232
275	465															163	211
300	507																194
350	592																207
400	676																

Voltage Drop Max. 3% voltage three phase 380v cosΦ=0.9 taken...



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