

PVC insulated wire

H07V-K



Application: For laying in pipes on top of or under plaster and in closed installation ducts and for internal wiring of machinery, switchgear and distributor systems. The cable is not suitable for direct laying under plaster.

Construction and technical data:

CPR-performance:	Eca
Standard:	EN 50525-2-31
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Maximum temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Bending radius, fixed installation:	4 x Ø



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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Loop resistance:	78.4 Ohm/km
Nominal voltage U₀:	450 V
Nominal voltage U:	750 V
Maximum operating capacity:	100 nF/km
Test voltage:	2.5 kV

part no.	part name	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg]
040035	1X1.5 BK	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040980	1X1.5 BK barrel pack	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040031	1X1.5 GN-YE	1.8	13.3	0.7	24	11.2	2.8	14,4	20
041004	1X1.5 GN-YE barrel pack	1.8	13.3	0.7	24	11.2	2.8	14,4	20

part no.	part name	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg]
040226	1X1.5 LBU	1.8	13.3	0.7	24	11.2	2.8	14,4	20
041005	1X1.5 LBU barrel pack	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040030	1X1.5 BN	1.8	13.3	0.7	24	11.2	2.8	14,4	20
041006	1X1.5 BN barrel pack	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040033	1X1.5 GY	1.8	13.3	0.7	24	11.2	2.8	14,4	20
041007	1X1.5 GY barrel pack	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040036	1X1.5 VI	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040034	1X1.5 RD	1.8	13.3	0.7	24	11.2	2.8	14,4	20
041008	1X1.5 RD barrel pack	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040037	1X1.5 WH	1.8	13.3	0.7	24	11.2	2.8	14,4	20
041009	1X1.5 WH barrel pack	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040195	1X1.5 OG	1.8	13.3	0.7	24	11.2	2.8	14,4	20
041010	1X1.5 OG barrel pack	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040194	1X1.5 TR	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040212	1X1.5 DBU	1.8	13.3	0.7	24	11.2	2.8	14,4	20
041011	1X1.5 DBU barrel pack	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040374	1X1.5 YE	1.8	13.3	0.7	24	11.2	2.8	14,4	21
040824	1X1.5 DBU-WH	1.8	13.3	0.7	24	11.2	2.8	14,4	20
040058	1X2.5 BK	2.6	7.98	0.8	32	13.6	3.4	24	32
040981	1X2.5 BK barrel pack	2.6	7.98	0.8	32	13.6	3.4	24	32
040054	1X2.5 GN-YE	2.6	7.98	0.8	32	13.6	3.4	24	32
041012	1X2.5 GN-YE barrel pack	2.6	7.98	0.8	32	13.6	3.4	24	32
040227	1X2.5 LBU	2.6	7.98	0.8	32	13.6	3.4	24	32
041013	1X2.5 LBU barrel pack	2.6	7.98	0.8	32	13.6	3.4	24	32
040052	1X2.5 BN	2.6	7.98	0.8	32	13.6	3.4	24	32
041014	1X2.5 BN barrel pack	2.6	7.98	0.8	32	13.6	3.4	24	32
040056	1X2.5 GY	2.6	7.98	0.8	32	13.6	3.4	24	32
040196	1X2.5 VI	2.6	7.98	0.8	32	13.6	3.4	24	32
040057	1X2.5 RD	2.6	7.98	0.8	32	13.6	3.4	24	32
041015	1X2.5 RD barrel pack	2.6	7.98	0.8	32	13.6	3.4	24	32
040059	1X2.5 WH	2.6	7.98	0.8	32	13.6	3.4	24	32
040213	1X2.5 DBU	2.6	7.98	0.8	32	13.6	3.4	24	32
040930	1X2.5 DBU-WH	2.6	7.98	0.8	32	13.6	3.4	24	32
040067	1X4 BK	3.2	4.95	0.8	42	15.6	3.9	38	46
040982	1X4 BK barrel pack	3.2	4.95	0.8	42	15.6	3.9	38	46
040066	1X4 GN-YE	3.2	4.95	0.8	42	15.6	3.9	38	46
041016	1X4 GN-YE barrel pack	3.2	4.95	0.8	42	15.6	3.9	38	46
040228	1X4 LBU	3.2	4.95	0.8	42	15.6	3.9	38	46
041017	1X4 LBU barrel pack	3.2	4.95	0.8	42	15.6	3.9	38	46
040065	1X4 BN	3.2	4.95	0.8	42	15.6	3.9	38	46
041018	1X4 BN barrel pack	3.2	4.95	0.8	42	15.6	3.9	38	46
040197	1X4 RD	3.2	4.95	0.8	42	15.6	3.9	38	46
040251	1X4 GY	3.2	4.95	0.8	42	15.6	3.9	38	46
040229	1X4 DBU	3.2	4.95	0.8	42	15.6	3.9	38	46

part no.	part name	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg]
040704	1X4 VI	3.2	4.95	0.8	42	19.2	4.8	38	46
040074	1X6 BK	3.9	3.3	0.8	54	18	4.5	58	65
040983	1X6 BK barrel pack	3.9	3.3	0.8	54	18	4.5	58	65
040073	1X6 GN-YE	3.9	3.3	0.8	54	18	4.5	58	65
041019	1X6 GN-YE barrel pack	3.9	3.3	0.8	54	18	4.5	58	65
040230	1X6 LBU	3.9	3.3	0.8	54	18	4.5	58	65
041020	1X6 LBU barrel pack	3.9	3.3	0.8	54	18	4.5	58	65
040071	1X6 BN	3.9	3.3	0.8	54	18	4.5	58	65
041021	1X6 BN barrel pack	3.9	3.3	0.8	54	18	4.5	58	65
040198	1X6 RD	3.9	3.3	0.8	54	18	4.5	58	65
040252	1X6 GY	3.9	3.3	0.8	54	18	4.5	58	65
040231	1X6 DBU	3.9	3.3	0.8	54	18	4.5	58	65
040380	1X6 WH	3.9	3.3	0.8	54	18	4.5	58	65
040663	1X6 OG	3.9	3.3	0.8	54	18	4.5	58	65
040705	1X6 VI	3.9	3.3	0.8	54	18	5.3	58	65
040042	1X10 BK	5.1	1.91	1	73	17.4	5.8	96	115
040040	1X10 GN-YE	5.1	1.91	1	73	17.4	5.8	96	115
040232	1X10 LBU	5.1	1.91	1	73	17.4	5.8	96	115
040039	1X10 BN	5.1	1.91	1	73	17.4	5.8	96	115
040041	1X10 RD	5.1	1.91	1	73	17.4	5.8	96	115
040233	1X10 DBU	5.1	1.91	1	73	17.4	5.8	96	115
040049	1X16 BK	6.3	1.21	1	98	21	7	154	170
040047	1X16 GN-YE	6.3	1.21	1	98	21	7	154	170
040234	1X16 LBU	6.3	1.21	1	98	21	7	154	170
040235	1X16 DBU	6.3	1.21	1	98	21	7	154	170
040046	1X16 BN	6.3	1.21	1	98	21	7	154	170
040048	1X16 RD	6.3	1.21	1	98	21	7	154	170
040349	1X16 GY	6.3	1.21	1	98	21	7	154	170
040061	1X25 BK	7.8	0.78	1.2	129	34	8.5	240	260
040060	1X25 GN-YE	7.8	0.78	1.2	129	34	8.5	240	260
040752	1X25 LBU	7.8	0.78	1.2	129	34	8.5	240	260
040753	1X25 DBU	7.8	0.78	1.2	129	34	8.5	240	260
040383	1X25 BN	7.8	0.78	1.2	129	34	8.5	240	260
040063	1X35 BK	9.2	0.554	1.2	158	39.2	9.8	336	360
040062	1X35 GN-YE	9.2	0.554	1.2	158	39.2	9.8	336	360
040754	1X35 LBU	9.2	0.554	1.2	158	39.2	9.8	336	360
040755	1X35 DBU	9.2	0.554	1.2	158	39.2	9.8	336	360
040387	1X35 BN	9.2	0.554	1.2	158	39.2	9.8	336	360
040696	1X35 WH	9.2	0.554	1.2	158	39.2	9.8	336	360
040069	1X50 BK	11	0.386	1.4	198	46.4	11.6	480	515
040068	1X50 GN-YE	11	0.386	1.4	198	46.4	11.6	480	515
040075	1X70 BK	13.1	0.272	1.4	245	53.2	13.3	672	710
040176	1X70 GN-YE	13.1	0.272	1.4	245	53.2	13.3	672	710
040836	1X70 LBU	13.1	0.27	1.4	245	53.2	13.3	672	710
040837	1X70 DBU	13.1	0.27	1.4	245	53.2	13.3	672	710
040076	1X95 BK	15	0.206	1.6	292	61.2	15.3	912	940
040185	1X95 GN-YE	15	0.206	1.6	292	61.2	15.3	912	940
040043	1X120 BK	19	0.161	1.6	344	67.6	16.9	1152	1180
040186	1X120 GN-YE	17	0.161	1.6	344	67.6	16.9	1152	1180
040044	1X150 BK	19	0.129	1.8	391	75.2	18.8	1440	1600
040700	1X150 GN-YE	19	0.129	1.8	391	75.2	18.8	1440	1600
040050	1X185 BK	21	0.106	2	448	84	21	1776	2100

part no.	part name	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg]
040351	1X185 GN-YE	21	0.106	2	448	84	21	1776	2100
040238	1X240 BK	24	0.0801	2.2	528	96	24	2304	3015
040342	1X240 GN-YE	24	0.0801	2.2	528	96	24	2304	3015

DI	diameter conductor
RI	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000