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FLEXIBLE CABLES



KMI
Wire and Cable

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INDONESIA

ISO 9001
QUALITY ASSURED FIRM

ISO 14001
ENVIRONMENTAL SYSTEM

OHSAS 18001
HEALTH & SAFETY MANAGEMENT SYSTEM

SMK3
PP NO. 50/2012

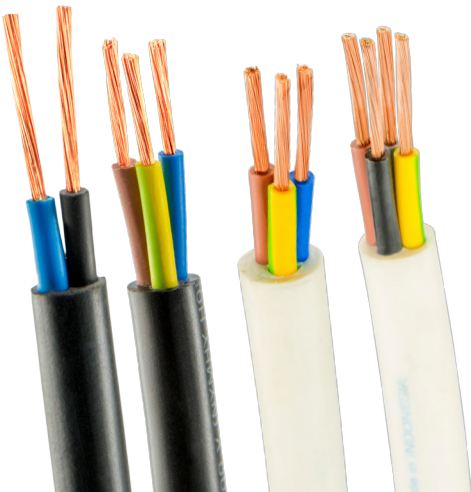
PT KMI Wire and Cable Tbk

CU/PVC/PVC 300/500 V

NYMHY (White Colored Sheath)
NYMHY H05VVF (Black Colored Sheath)

Standard Specification: SNI 04-6629.5 : 2006 (IEC 53)
Flexible Copper Conductor, PVC Insulated, PVC Sheathed

- Applications:
- Power cord or internal wiring with low mechanical stress for electrical equipments, machineries, luminaires and other portable appliances use in dry indoor premises (NYMHY - white colored sheath) and outdoor application (NYMHY H05VVF - black colored sheath)
 - Permanent exposed wiring in humid environment, installation in tray or under plaster for general purpose 220 - 240 VAC single phase domestical application, inherently flame retardant in compliance with IEC 60332-1.



Cable Size (No. of core x Conductor Area)	Conductor Make-up (No.of wire x Diameter)	DC Resistance at		Current Carrying Capacity in air 30°C	Short Circuit Current 1 Sec.	Insulation/ Sheath Thickness	Overall Diameter	Cable Weight	Standard Packing Length *
		20°C Conductor	70°C Insulation						
nom. (mm²)	nom. (mm)	max. (ohm/km)	min. (Mohm.km)	max. (A)	max. (A)	nom. (mm)	approx. (mm)	approx. (kg/km)	(meter/ packing)
2 x 0.75	24 x 0.20	26.0	0.011	6	86	0.6 / 0.8	6.2	57	100/c
2 x 1	32 x 0.20	19.5	0.010	10	115	0.6 / 0.8	6.8	70	100/c
2 x 1.5	30 x 0.25	13.3	0.010	15	173	0.7 / 0.8	7.9	94	100/c
2 x 2.5	50 x 0.25	7.98	0.009	20	288	0.8 / 1.0	9.8	146	100/c
3 x 0.75	24 x 0.20	26.0	0.011	6	86	0.6 / 0.8	6.5	69	100/c
3 x 1	32 x 0.20	19.5	0.010	10	115	0.6 / 0.8	7.2	84	100/c
3 x 1.5	30 x 0.25	13.3	0.010	15	173	0.7 / 0.9	8.6	118	100/c
3 x 2.5	50 x 0.25	7.98	0.009	20	288	0.8 / 1.1	10.6	182	100/c
4 x 0.75	24 x 0.20	26.0	0.011	6	86	0.6 / 0.8	7.1	84	100/c
4 x 1	32 x 0.20	19.5	0.010	10	115	0.6 / 0.9	8.1	107	100/c
4 x 1.5	30 x 0.25	13.3	0.010	15	173	0.7 / 1.0	9.6	149	100/c
4 x 2.5	50 x 0.25	7.98	0.009	20	288	0.8 / 1.1	11.6	225	100/c
5 x 0.75	24 x 0.20	26.0	0.011	6	86	0.6 / 0.9	8.0	105	100/c
5 x 1	32 x 0.20	19.5	0.010	10	115	0.6 / 0.9	8.9	129	100/c
5 x 1.5	30 x 0.25	13.3	0.010	15	173	0.7 / 1.1	10.7	185	100/c
5 x 2.5	50 x 0.25	7.98	0.009	20	288	0.8 / 1.2	12.9	279	1,000/d

Test Voltage : 2,000 VAC/5 minutes, except for insulation thickness less than 0.7 mm (1,500 VAC/5 minutes)

* c = coil d = drum

CU/PVC/PVC 300/500 V

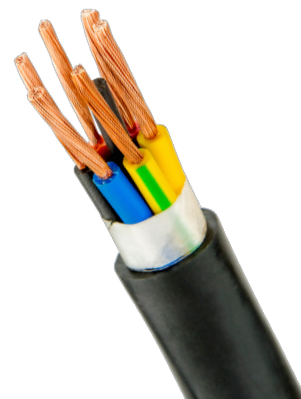
NYHY H05VVF (Black Colored Sheath)

Standard Specification: IEC 60227-7 : 2012 & SNI 04-6629.7 : 2006 (IEC 75)

Flexible Copper Conductor, PVC Insulated, PVC Sheathed

Applications:

- Power cord or internal wiring with medium mechanical stress for electrical equipments, machineries, luminaires and other portable appliances in dry indoor premises or outdoor application.
- Permanent exposed wiring in humid environment, installation in tray or under plaster for industrial three phase 380 - 415 VAC or single phase 220 - 240 VAC multipurpose application, inherently flame retardant in compliance with IEC 60332-1.



Cable Size (No. of core x Conductor Area)	Conductor Make-up (No. of wire x Diameter)	DC Resistance at		Current Carrying Capacity in air 30°C	Short Circuit Current 1 Sec.	Insulation/ Sheath Thickness	Overall Diameter	Cable Weight	Standard Packing Length *
		20°C Conductor	70°C Insulation						
nom. (mm ²)	nom. (mm)	max. (ohm/km)	min. (Mohm.km)	max. (A)	max. (A)	nom. (mm)	approx. (mm)	approx. (kg/km)	(meter/ packing)
6 x 0.5	16 x 0.20	39.0	0.013	5	58	0.6 / 0.9	8.8	108	100/c
6 x 0.75	24 x 0.20	26.0	0.011	7	86	0.6 / 0.9	9.5	132	100/c
6 x 1	32 x 0.20	19.5	0.010	9	115	0.6 / 1.0	10.2	160	100/c
6 x 1.5	30 x 0.25	13.3	0.010	12	173	0.7 / 1.1	11.9	222	100/c
6 x 2.5	50 x 0.25	7.98	0.009	16	288	0.8 / 1.2	14.1	330	1,000/d
7 x 0.5	16 x 0.20	39.0	0.013	5	58	0.6 / 0.9	8.8	111	100/c
7 x 0.75	24 x 0.20	26.0	0.011	6	86	0.6 / 1.0	9.5	137	100/c
7 x 1	32 x 0.20	19.5	0.010	8	115	0.6 / 1.0	10.2	166	100/c
7 x 1.5	30 x 0.25	13.3	0.010	11	173	0.7 / 1.2	11.9	231	100/c
7 x 2.5	50 x 0.25	7.98	0.009	15	288	0.8 / 1.3	14.1	347	1,000/d
12 x 0.5	16 x 0.20	39.0	0.013	4	58	0.6 / 1.1	11.9	181	100/c
12 x 0.75	24 x 0.20	26.0	0.011	5	86	0.6 / 1.1	12.8	224	100/c
12 x 1	32 x 0.20	19.5	0.010	7	115	0.6 / 1.2	13.7	271	1,000/d
12 x 1.5	30 x 0.25	13.3	0.010	9	173	0.7 / 1.3	16.0	375	1,000/d
12 x 2.5	50 x 0.25	7.98	0.009	13	288	0.8 / 1.5	19.3	572	1,000/d
18 x 0.5	16 x 0.20	39.0	0.013	3	58	0.6 / 1.2	13.8	252	100/c
18 x 0.75	24 x 0.20	26.0	0.011	4	86	0.6 / 1.3	15.1	322	1,000/d
18 x 1	32 x 0.20	19.5	0.010	6	115	0.6 / 1.3	16.0	380	1,000/d
18 x 1.5	30 x 0.25	13.3	0.010	8	173	0.7 / 1.5	18.9	538	1,000/d
18 x 2.5	50 x 0.25	7.98	0.009	11	288	0.8 / 1.8	22.9	831	1,000/d
27 x 0.5	16 x 0.20	39.0	0.013	3	58	0.6 / 1.4	16.9	372	1,000/d
27 x 0.75	24 x 0.20	26.0	0.011	4	86	0.6 / 1.5	18.5	474	1,000/d
27 x 1	32 x 0.20	19.5	0.010	5	115	0.6 / 1.5	19.6	562	1,000/d
27 x 1.5	30 x 0.25	13.3	0.010	7	173	0.7 / 1.8	23.2	804	1,000/d
27 x 2.5	50 x 0.25	7.98	0.009	10	288	0.8 / 2.1	28.1	1,234	1,000/d
36 x 0.5	16 x 0.20	39.0	0.013	2	58	0.6 / 1.5	18.9	480	1,000/d
36 x 0.75	24 x 0.20	26.0	0.011	3	86	0.6 / 1.6	20.6	613	1,000/d
36 x 1	32 x 0.20	19.5	0.010	5	115	0.6 / 1.7	22.1	740	1,000/d
36 x 1.5	30 x 0.25	13.3	0.010	6	173	0.7 / 2.0	26.1	1,054	1,000/d
36 x 2.5	50 x 0.25	7.98	0.009	9	288	0.8 / 2.3	31.5	1,615	1,000/d
48 x 0.5	16 x 0.20	39.0	0.013	2	58	0.6 / 1.7	21.9	632	1,000/d
48 x 0.75	24 x 0.20	26.0	0.011	3	86	0.6 / 1.8	23.9	807	1,000/d
48 x 1	32 x 0.20	19.5	0.010	4	115	0.6 / 1.9	25.6	972	1,000/d
48 x 1.5	30 x 0.25	13.3	0.010	6	173	0.7 / 2.2	30.2	1,381	1,000/d
48 x 2.5	50 x 0.25	7.98	0.009	8	288	0.8 / 2.4	36.3	2,094	1,000/d
60 x 0.5	16 x 0.20	39.0	0.013	2	58	0.6 / 1.8	23.9	768	1,000/d
60 x 0.75	24 x 0.20	26.0	0.011	3	86	0.6 / 2.0	26.3	995	1,000/d
60 x 1	32 x 0.20	19.5	0.010	4	115	0.6 / 2.1	28.1	1,199	1,000/d
60 x 1.5	30 x 0.25	13.3	0.010	5	173	0.7 / 2.4	33.1	1,698	1,000/d
60 x 2.5	50 x 0.25	7.98	0.009	8	288	0.8 / 2.4	39.3	2,535	1,000/d

Test Voltage : 2,000 VAC/5 minutes, except for insulation thickness less than 0.7 mm (1,500 VAC/5 minutes)

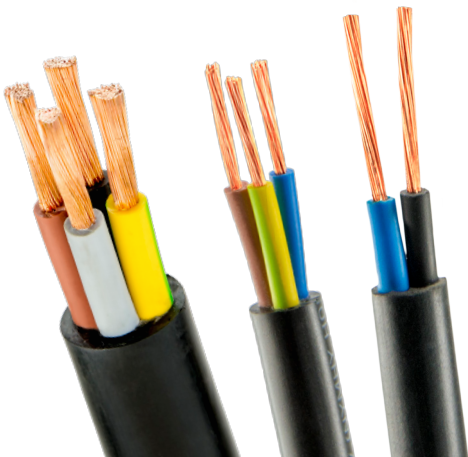
* c = coil d = drum

CU/PVC/PVC 450/750 V

NYHY H07VVF (Black Colored Sheath)

Standard Specification: IEC 60227-6 : 2001 (IEC 71c)
Flexible Copper Conductor, PVC Insulated, PVC Sheathed

- Applications:
- Power cord or internal wiring with medium mechanical stress for electrical equipments, machineries, luminaires and other portable appliances in dry indoor premises and outdoor application.
 - Permanent exposed wiring in humid environment, installation in tray or under plaster for industrial three phase 380 - 415 VAC or single phase 220 - 240 VAC multipurpose application, inherently flame retardant in compliance with IEC 60332-1.



Cable Size (No. of core x Conductor Area)	Conductor Make-up (No.of wire x Diameter)	DC Resistance at		Current Carrying Capacity in air 30°C	Short Circuit Current 1 Sec.	Insulation/ Sheath Thickness	Overall Diameter	Cable Weight	Standard Packing Length *
		20°C Conductor	70°C Insulation						
nom. (mm²)	nom. (mm)	max. (ohm/km)	min. (Mohm.km)	max. (A)	max. (A)	nom. (mm)	approx. (mm)	approx. (kg/km)	(meter/ packing)
2 x 4	56 x 0.30	4.95	0.007	26	460	0.8 / 1.0	10.5	189	100/c
2 x 6	84 x 0.30	3.30	0.006	33	690	0.8 / 1.0	12.0	256	100/c
2 x 10	80 x 0.40	1.91	0.0056	45	1,150	1.0 / 1.3	15.5	428	1,000/d
2 x 16	126 x 0.40	1.21	0.0046	61	1,840	1.0 / 1.3	17.6	596	1,000/d
2 x 25	196 x 0.40	0.78	0.0044	80	2,875	1.2 / 1.6	21.8	914	1,000/d
3 x 4	56 x 0.30	4.95	0.007	26	460	0.8 / 1.0	11.1	232	100/c
3 x 6	84 x 0.30	3.30	0.006	33	690	0.8 / 1.3	13.4	337	1,000/d
3 x 10	80 x 0.40	1.91	0.0056	45	1,150	1.0 / 1.3	16.4	530	1,000/d
3 x 16	126 x 0.40	1.21	0.0046	61	1,840	1.0 / 1.3	18.8	751	1,000/d
3 x 25	196 x 0.40	0.78	0.0044	80	2,875	1.2 / 1.6	23.2	1,153	1,000/d
4 x 4	56 x 0.30	4.95	0.007	26	460	0.8 / 1.3	12.9	305	1,000/d
4 x 6	84 x 0.30	3.30	0.006	33	690	0.8 / 1.3	14.7	414	1,000/d
4 x 10	80 x 0.40	1.91	0.0056	45	1,150	1.0 / 1.3	18.1	664	1,000/d
4 x 16	126 x 0.40	1.21	0.0046	61	1,840	1.0 / 1.6	21.4	979	1,000/d
4 x 25	196 x 0.40	0.78	0.0044	80	2,875	1.2 / 2.0	26.4	1,509	1,000/d
5 x 4	56 x 0.30	4.95	0.007	20	460	0.8 / 1.3	14.1	373	1,000/d
5 x 6	84 x 0.30	3.30	0.006	25	690	0.8 / 1.3	16.1	509	1,000/d
5 x 10	80 x 0.40	1.91	0.0056	34	1,150	1.0 / 1.6	20.5	843	1,000/d
5 x 16	126 x 0.40	1.21	0.0046	46	1,840	1.0 / 1.6	23.5	1,198	1,000/d
5 x 25	196 x 0.40	0.78	0.0044	61	2,875	1.2 / 2.0	29.0	1,845	1,000/d

Test Voltage : 2,500 VAC/5 minutes

* c = coil d = drum

CU/PVC/PVC 0.6/1 kV

NYY Flexible (Black Colored Sheath)

Standard Specification: SNI IEC 60502-1 : 2009

Flexible Copper Conductor, PVC Insulated, PVC Sheathed

Applications:

- Power cord or internal wiring with medium mechanical stress for electrical equipments, machineries, luminaires and other portable appliances in dry indoor premises and outdoor application.
- Permanent exposed wiring in humid environment, installation in tray or under plaster for industrial three phase 380 - 415 VAC or single phase 220 - 240 VAC multipurpose application, inherently flame retardant in compliance with IEC 60332-1.



Cable Size (No. of core x Conductor Area)	Conductor Make-up (No. of wire x Diameter)	DC Resistance at		Current Carrying Capacity in air 30°C	Short Circuit Current 1 Sec.	Insulation/ Sheath Thickness	Overall Diameter	Cable Weight	Standard Packing Length *
		20°C Conductor	70°C Insulation						
nom. (mm ²)	nom. (mm)	max. (ohm/km)	min. (Mohm.km)	max. (A)	max. (A)	nom. (mm)	approx. (mm)	approx. (kg/km)	(meter/ packing)
1 x 35	276 x 0.40	0.554	0.004	115	4,025	1.2 / 1.4	13.2	440	1,000/d
1 x 50	396 x 0.40	0.386	0.004	146	5,750	1.4 / 1.4	15.1	615	1,000/d
1 x 70	360 x 0.50	0.272	0.004	184	8,050	1.4 / 1.4	17.0	831	1,000/d
1 x 95	475 x 0.50	0.206	0.004	221	10,925	1.6 / 1.5	19.2	1,083	1,000/d
1 x 120	608 x 0.50	0.161	0.003	259	13,801	1.6 / 1.5	20.9	1,345	1,000/d
1 x 150	756 x 0.50	0.129	0.003	301	17,251	1.8 / 1.6	23.2	1,663	1,000/d
1 x 185	925 x 0.50	0.106	0.003	343	21,276	2.0 / 1.7	25.6	2,030	1,000/d
1 x 240	1221 x 0.50	0.0801	0.003	412	27,601	2.2 / 1.8	28.9	2,643	1,000/d
1 x 300	1530 x 0.50	0.0641	0.003	475	34,501	2.4 / 1.9	31.9	3,283	1,000/d
1 x 400	2035 x 0.50	0.0486	0.003	564	46,002	2.6 / 2.0	36.1	4,294	1,000/d
2 x 35	276 x 0.40	0.554	0.004	119	4,025	1.2 / 1.8	25.9	1,229	1,000/d
2 x 50	396 x 0.40	0.386	0.004	150	5,750	1.4 / 1.8	30.2	1,626	1,000/d
2 x 70	360 x 0.50	0.272	0.004	187	8,050	1.4 / 1.9	34.1	2,160	1,000/d
2 x 95	475 x 0.50	0.206	0.004	223	10,925	1.6 / 2.0	38.7	2,813	1,000/d
2 x 120	608 x 0.50	0.161	0.003	260	13,801	1.6 / 2.1	42.4	3,456	1,000/d
2 x 150	756 x 0.50	0.129	0.003	298	17,251	1.8 / 2.2	46.8	4,222	1,000/d
2 x 185	925 x 0.50	0.106	0.003	336	21,276	2.0 / 2.4	51.6	5,127	1,000/d
2 x 240	1221 x 0.50	0.0801	0.003	398	27,601	2.2 / 2.6	58.5	6,669	1,000/d
2 x 300	1530 x 0.50	0.0641	0.003	454	34,501	2.4 / 2.7	64.5	8,688	1,000/d
3 x 35	276 x 0.40	0.554	0.004	107	4,025	1.2 / 1.8	27.5	1,565	1,000/d
3 x 50	396 x 0.40	0.386	0.004	135	5,750	1.4 / 1.8	32.2	2,105	1,000/d
3 x 70	360 x 0.50	0.272	0.004	170	8,050	1.4 / 1.9	36.5	2,854	1,000/d
3 x 95	475 x 0.50	0.206	0.004	202	10,925	1.6 / 2.1	41.5	3,707	1,000/d
3 x 120	608 x 0.50	0.161	0.003	237	13,801	1.6 / 2.2	45.4	4,589	1,000/d
3 x 150	756 x 0.50	0.129	0.003	273	17,251	1.8 / 2.3	50.1	5,630	1,000/d
3 x 185	925 x 0.50	0.106	0.003	309	21,276	2.0 / 2.5	55.5	6,895	1,000/d
3 x 240	1221 x 0.50	0.0801	0.003	366	27,601	2.2 / 2.7	62.6	8,940	1,000/d
3 x 300	1530 x 0.50	0.0641	0.003	418	34,501	2.4 / 2.9	69.3	11,798	1,000/d
4 x 35	276 x 0.40	0.554	0.004	99	4,025	1.2 / 1.8	30.3	1,980	1,000/d
4 x 50	396 x 0.40	0.386	0.004	124	5,750	1.4 / 1.9	35.8	2,724	1,000/d
4 x 70	360 x 0.50	0.272	0.004	156	8,050	1.4 / 2.1	40.6	3,692	1,000/d
4 x 95	475 x 0.50	0.206	0.004	186	10,925	1.6 / 2.2	45.9	4,784	1,000/d
4 x 120	608 x 0.50	0.161	0.003	218	13,801	1.6 / 2.3	50.3	5,929	1,000/d
4 x 150	756 x 0.50	0.129	0.003	251	17,251	1.8 / 2.5	56.0	7,361	1,000/d
4 x 185	925 x 0.50	0.106	0.003	285	21,276	2.0 / 2.7	61.7	8,960	1,000/d
4 x 240	1221 x 0.50	0.0801	0.003	338	27,601	2.2 / 2.9	69.6	11,637	1,000/d
4 x 300	1530 x 0.50	0.0641	0.003	387	34,501	2.4 / 3.1	77.3	15,443	1,000/d
5 x 35	276 x 0.40	0.544	0.004	93	4,025	1.2 / 1.9	33.5	2,442	1,000/d
5 x 50	396 x 0.40	0.386	0.004	117	5,750	1.4 / 2.0	39.6	3,393	1,000/d

Test Voltage : 3,500 VAC/5 minutes

* d = drum

CU/PVC

NYAF

Flexible Copper Conductor, PVC Insulated

Applications:

- Power cord or internal wiring with low mechanical stress for electrical equipments, machineries, distribution panels, luminaires and other electrical used in dry indoor premises, substitutes NYA.
- Permanent instalation in conduit, inherently flame retardant in compliance with IEC 60332-1.

Rated Voltage : 300/500 V

Standard Specification : SNI 04-6629.3 : 2006 (IEC 06)



Cable Size (No. of core x Conductor Area)	Conductor Make-up (No. of wire x Diameter)	DC Resistance at		Current Carrying Capacity in air 30°C	Short Circuit Current 1 Sec.	Insulation/ Thickness	Overall Diameter	Cable Weight	Standard Packing Length *
		20°C Conductor	70°C Insulation						
nom. (mm ²)	nom. (mm)	max. (ohm/km)	min. (Mohm.km)	max. (A)	max. (A)	nom. (mm)	approx. (mm)	approx. (kg/km)	(meter/ packing)
0.5	16 x 0.20	39.0	0.013	6	58	0.6	2.2	9	100/c
0.75	24 x 0.20	26.0	0.011	10	86	0.6	2.3	12	100/c
1.00	32 x 0.20	19.5	0.010	16	115	0.6	2.6	16	100/c

Test Voltage : 2,000 VAC/5 minutes

Rated Voltage : 450/750 V

Standard Specification : SNI 04-6629.3 : 2006 (IEC 02)

Cable Size (No. of core x Conductor Area)	Conductor Make-up (No. of wire x Diameter)	DC Resistance at		Current Carrying Capacity in air 30°C	Short Circuit Current 1 Sec.	Insulation/ Thickness	Overall Diameter	Cable Weight	Standard Packing Length *
		20°C Conductor	70°C Insulation						
nom. (mm ²)	nom. (mm)	max. (ohm/km)	min. (Mohm.km)	max. (A)	max. (A)	nom. (mm)	approx. (mm)	approx. (kg/km)	(meter/ packing)
1.5	30 x 0.25	13.3	0.010	24	173	0.7	3.2	22	100/c
2.5	50 x 0.25	7.98	0.009	32	288	0.8	3.9	35	100/c
4	56 x 0.30	4.95	0.007	41	460	0.8	4.4	52	100/c
6	84 x 0.30	3.30	0.006	53	690	0.8	5.0	73	100/c
10	80 x 0.40	1.91	0.0056	72	1,150	1.0	6.4	122	100/c
16	126 x 0.40	1.21	0.0046	97	1,840	1.0	7.4	180	100/c
25	196 x 0.40	0.78	0.0044	128	2,875	1.2	9.3	275	1,000/d
35	276 x 0.40	0.554	0.0038	156	4,025	1.2	10.5	347	1,000/d
50	396 x 0.40	0.386	0.0037	195	5,750	1.4	12.4	531	1,000/d
70	360 x 0.50	0.272	0.0032	243	8,050	1.4	14.2	735	1,000/d
95	475 x 0.50	0.206	0.0032	287	10,925	1.6	16.5	969	1,000/d
120	608 x 0.50	0.161	0.0029	342	13,801	1.6	18.5	1,279	1,000/d
150	756 x 0.50	0.129	0.0029	386	17,251	1.8	20.3	1,559	1,000/d
185	925 x 0.50	0.106	0.0029	441	21,276	2.0	22.6	1,899	500/d
240	1221 x 0.50	0.0801	0.0028	520	27,601	2.2	25.7	2,479	500/d

Test Voltage : 2,500 VAC/5 minutes

* c = coil d = drum

PT KMI Wire and Cable Tbk reserves the right to change the data content without prior notification

PT KMI Wire and Cable Tbk

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