NYY 1 x (1.5-630)mm²

CU/PVC/PVC

FLAME RETARDANT AND UV RESISTANT/ REDUCED FLAME PRPPAGATION

Construction

Conductor: Cu, 2 acc. IEC60228, BS6360, BS EN 60228
class 1: solid, round(RE) or sector (SE)
class 2: multi wire stranded, round (RM) or sector (SM), multi wire exceeding 50 mm² are compacted

Insulation: PVC compound DIV-4 acc. to HRN HD 603.1

Sheath: UV resistant PVC (EN 50363-4-1, DIN VDE 207 TM2)

sheath colour: Black Ral 9005

Abbreviations
Y insulation & outer sheath of PVC
fl reduced flame propagation

Technical data

Temperature range:

During installation :	-5 °C up to +50 °C
fixed installed:	-30 °C up to +70 °C
at short circuit of max.	5 s: up to 160 °C
ambient temperature at storage:	up to 40 °C

Nominal voltage: Uo/U = 0.6/1 KV
Test voltage: 3.5 KV AC for 5 Min

Minimal inner bending radius: single core :15D
multi core : 12D

Behavior in fire: IEC 60332-1
Flame propagation: IEC 60332-3 cat.A

Maximal tensile strength: 50 N/mm²

DESIGN STANDARDS

IEC 60502-1
DIN VDE 0276 part 603

APPLICATION

Distribution and signal power cable for static outdoor application (with protection against direct UV-irradiation), in ground, in water, within facilities, in cable canals, in concrete, in conditions where heavier mechanical loads and especially tensile strains, are not expected. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants, same as for connection of signaling devices in industry, traffic and similar.

NYY 1x(1.5-630)mm²

CU/PVC/ PVC

Code No.	number of cores x conductor cross-section	Construction	Construction of individual conductor	External diameter	Insulation thickness	Conductor resistance at 20 °C	Short circuit current 1s	Cable weight	Packing *
			nominal	Nom.	nom.	max.	nom.	Nom.	
	N x mm²		n x mm	mm	mm	Ω/km	kA	kg/km	
41115	1 x 1.5	RM	7 x 0.52	6.0	0.8	12.1	0.173	53	CUT
41125	1 x2.5	RM	7 x 0.66	6.4	0.8	7.41	0,288	66	CUT
4114	1 x 4	RM	7 x 0.85	7.5	1,0	4,61	0,46	92	CUT
4116	1 x 6	RM	7 x 1.04	8.0	1,0	3,08	0,69	120	CUT
41110	1 x 10	RM	7 x 1.35	8.8	1,0	1,83	1,15	170	CUT
41116	1 x 16	RM	7 x 1.7	9.8	1,0	1,15	1,84	235	CUT
41125	1 x 25	RM	7 x 2,2	11.8	1,2	0,727	2,87	340	CUT
41135	1 x 35	RM	7 x 2,6	12.1	1,2	0,524	4,02	420	CUT
41150	1 x 50	RM	19 x 1,8	13.9	1,4	0,387	5,75	580	CUT
41170	1 x 70	RM	19 x 2,2	15.6	1,4	0,268	8,05	780	CUT
41195	1 x 95	RM	19 x 2,6	17.8	1,6	0,193	10,90	1040	CUT
411120	1 x 120	RM	19 x 2,8	19.4	1,6	0,153	13,80	1280	CUT
411150	1 x 150	RM	37 x 2,3	21.5	1,8	0,124	17,20	1590	CUT
411185	1 x 185	RM	37 x 2,6	23.4	2,0	0,0991	21,30	1960	CUT
411240	1 x 240	RM	37 x 2,95	26.5	2,2	0,0754	27,60	2505	CUT
411300	1 x 300	RM	61 x 2,6	29.4	2,4	0,0601	34,50	3120	CUT
411400	1 x 400	RM	61 x 2,89	32.6	2,6	0,047	41,20	4065	CUT
411500	1 x 500	RM	61 x 3,23	36.4	2,8	0,0366	51,50	5150	CUT
411630	1 x 630	RM	91 x 2,97	43.1	2,8	0,0283	64,00	6620	CUT

*)Packing: c.100 = coil 100 m, CUT= cable in different lengths on drum or reel, possible cutting at required

Current rating (AC) تU₀/U (0.6/1KV) copper conductors Laid in air

Nominal cross-sectional area **nom.**(mm²)						
	PVC	XLPE	PVC	**XLPE**	PVC	XLPE
1.5	27	33	20	24	21	27
2.5	35	43	26	32	28	36
4	47	57	34	42	37	47
6	59	72	43	53	47	59
10	81	99	59	73	64	81
16	107	131	78	97	84	109
25	144	177	105	132	114	146
35	176	217	129	162	139	179
50	214	265	157	197	169	218
70	270	336	199	250	213	275
95	334	415	246	308	264	336
120	389	485	285	359	307	388
150	446	557	326	412	352	438
185	516	647	374	475	406	501
240	618	775	445	564	483	580
300	711	894	510	649	552	649
400	843	1061	597	761	646	734
500	994	1254	663	860	747	827
630	1180	1486	-----	-----	858	934

NYY 2 x (1.5-400)mm²

CU/PVC/PVC

FLAME RETARDANT AND UV RESISTANT/ REDUCED FLAME PRPPAGATION

Construction

Conductor:	plain annealed copper, class 1 or class 2 acc. to IEC 60228 ≤ 50 mm²: circular solid (RE) or circular stranded (RM), > 50 mm²: sector-shaped stranded (SM)
Insulation:	polyvinyl chloride PVC
Colour code:	blue, black
Laying up:	cores twisted in layers (if necessary with filling element(s))
Inner Covering:	extruded filler of PVC
Sheath:	UV resistant PVC (EN 50363-4-1, DIN VDE 207 TM2)
sheath colour:	Black Ral 9005

Abbreviations
Y insulation & outer sheath of PVC
fl reduced flame propagation

Technical data

Temperature range:

During installation :	-5 °C up to +50 °C
during operation:	-30 °C up to +70 °C
at short circuit of max.	≤ 300 mm²: max. +160 °C > 300 mm²: max. +140 °C
ambient temperature at storage:	up to 40 °C
Nominal voltage:	Uo/U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	8 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

APPLICATION

Distribution and signal power cable for static outdoor application (with protection against direct UV-irradiation), in ground, in water, within facilities, in cable canals, in concrete, in conditions where heavier mechanical loads and especially tensile strains, are not expected. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants, same as for connection of signaling devices in industry, traffic and similar.

NYY 2 x (1.5-400)mm^2

CU/PVC/ PVC

Code No.	Dimensions – number of cores x conductor cross-section	Construction	Insulation thickness	sheath thickness	External diameter	Conductor resistance at 20 °C	Short circuit current 1s	Cable weight	Packing*
	N x mm²		nom. mm	Nom. mm	nom. mm	max. Ω/km	nom. kA	Nom. kg/km	
412150	2 x 1.5	RM	0.8	1.8	11.1	12.1	0.173	155	CUT
412151	2 x 1.5	RE	0.8	1.8	10.5	12.1	0.173	150	CUT
412250	2 x2.5	RM	0.8	1.8	12.1	7.41	0,288	200	CUT
412251	2 x2.5	RE	0.8	1.8	11.5	7.41	0,288	190	CUT
41240	2 x 4	RM	1,0	1.8	14.4	4,61	0,46	290	CUT
41241	2 x 4	RE	1,0	1.8	13.6	4,61	0,46	270	CUT
41260	2 x 6	RM	1,0	1.8	15.6	3,08	0,69	345	CUT
41261	2 x 6	RE	1,0	1.8	14.1	3,08	0,69	330	CUT
412100	2 x 10	RM	1,0	1.8	17.4	1,83	1,15	470	CUT
412101	2 x 10	RE	1,0	1.8	15.9	1,83	1,15	440	CUT
412160	2 x 16	RM	1,0	1.8	20.0	1,15	1,84	650	CUT
41261	2 x 16	RE	1,0	1.8	18.5	3,08	0,69	610	CUT
41225	2 x 25	RM	1,2	1.8	23.4	0,727	2,87	910	CUT
41235	2 x 35	RM	1,2	1.8	24.5	0,524	4,02	1020	CUT
41250	2 x 50	SM	1,4	1.8	22.8	0,387	5,75	1330	CUT
41270	2 x 70	SM	1,4	1.9	26.6	0,268	8,05	1730	CUT
41295	2 x 95	SM	1,6	2.0	30.2	0,193	10,90	2360	CUT
412120	2 x 120	SM	1,6	2.1	33.3	0,153	13,80	2850	CUT
412150	2 x 150	SM	1,8	2.2	36.8	0,124	17,20	3480	CUT
412185	2 x 185	SM	2,0	2.4	40.5	0,0991	21,30	4350	CUT
412240	2 x 240	SM	2,2	2.6	45.9	0,0754	27,60	5610	CUT
412300	2 x 300	SM	2,4	2.7	50.8	0,0601	34,50	7210	CUT
412400	2 x 400	SM	2,6	3.0	57.9	0,047	41,20	8420	CUT

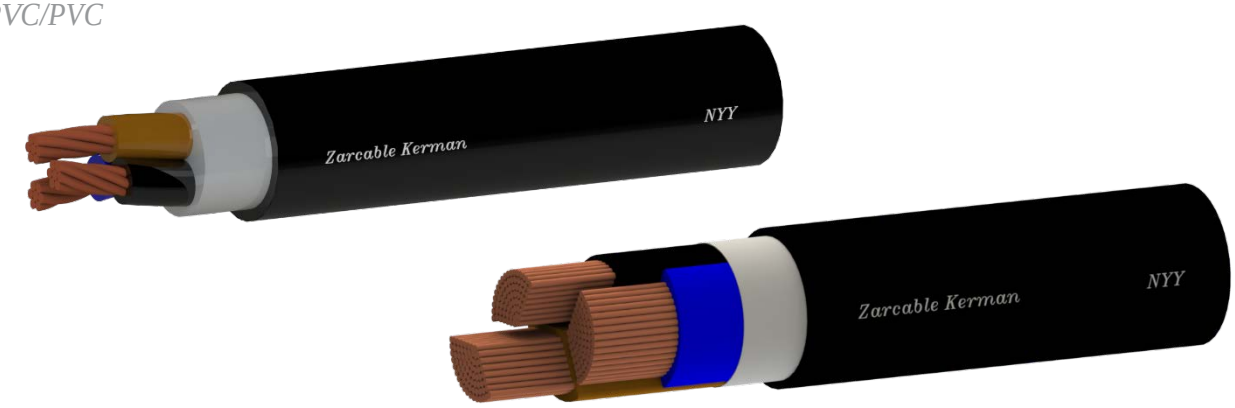
*)Packing: c.100 = coil 100 m, CUT= cable in different lengths on drum or reel, possible cutting at required

Current rating (AC) تU₀/U (0.6/1KV) copper conductors Laid in air

Nominal cross-sectional area nom.(mm²)						
	PVC	XLPE	PVC	XLPE	PVC	XLPE
1.5	27	33	20	24	21	27
2.5	35	43	26	32	28	36
4	47	57	34	42	37	47
6	59	72	43	53	47	59
10	81	99	59	73	64	81
16	107	131	78	97	84	109
25	144	177	105	132	114	146
35	176	217	129	162	139	179
50	214	265	157	197	169	218
70	270	336	199	250	213	275
95	334	415	246	308	264	336
120	389	485	285	359	307	388
150	446	557	326	412	352	438
185	516	647	374	475	406	501
240	618	775	445	564	483	580
300	711	894	510	649	552	649
400	843	1061	597	761	646	734

NYY 3x (1.5-400)mm²

CU/PVC/PVC



FLAME RETARDANT AND UV RESISTANT/ REDUCED FLAME PRPPAGATION

Construction

Conductor:	plain annealed copper, class 1 or class 2 acc. to IEC 60228 ≤ 50 mm²: circular solid (RE) or circular stranded (RM), > 50 mm²: sector-shaped stranded (SM)
Insulation:	polyvinyl chloride PVC
Colour code:	Blue, Brown, Black
Laying up:	cores twisted in layers (if necessary with filling element(s))
Inner Covering:	extruded filler of PVC
Sheath:	UV resistant PVC (EN 50363-4-1, DIN VDE 207 TM2)
sheath colour:	Black Ral 9005

Abbreviations
Y insulation & outer sheath of PVC
fl reduced flame propagation

Technical data

Temperature range:

During installation :	-5 °C up to +50 °C
during operation:	-30 °C up to +70 °C
at short circuit of max.	≤ 300 mm²: max. +160 °C > 300 mm²: max. +140 °C
ambient temperature at storage:	up to 40 °C
Nominal voltage:	Uo/U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	8 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

DESIGN STANDARDS

IEC 60502-1
DIN VDE 0276 part 603

APPLICATION

Distribution and signal power cable for static outdoor application (with protection against direct UV-irradiation), in ground, in water, within facilities, in cable canals, in concrete, in conditions where heavier mechanical loads and especially tensile strains, are not expected. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants, same as for connection of signaling devices in industry, traffic and similar.

NYY 3 x (1.5-400)mm^2

CU/PVC/ PVC

Code No.	number of cores x conductor cross-section	Construction	Insulation thickness	sheath thickness	External diameter	Conductor resistance at 20 °C	Short circuit current 1s	Cable weight	Packing*
			nom.	Nom.	nom.	max.	nom.	Nom.	
	N x mm²		mm	mm	mm	Ω/km	kA	kg/km	
413150	3 x 1.5	RM	0.8	1.8	11.6	12.1	0.173	195	CUT
413151	3 x 1.5	RE	0.8	1.8	10.8	12.1	0.173	175	CUT
413250	3 x2.5	RM	0.8	1.8	11.9	7.41	0,288	235	CUT
413251	3 x2.5	RE	0.8	1.8	11.4	7.41	0,288	215	CUT
41340	3 x 4	RM	1,0	1.8	14.2	4,61	0,46	315	CUT
41341	3 x 4	RE	1,0	1.8	13.1	4,61	0,46	310	CUT
41360	3 x 6	RM	1,0	1.8	15.1	3,08	0,69	405	CUT
41361	3 x 6	RE	1,0	1.8	14.4	3,08	0,69	395	CUT
413100	3 x 10	RM	1,0	1.8	17.1	1,83	1,15	585	CUT
413101	3 x 10	RE	1,0	1.8	16.1	1,83	1,15	545	CUT
413160	3 x 16	RM	1,0	1.8	19.4	1,15	1,84	825	CUT
41361	3 x 16	RE	1,0	1.8	17.9	3,08	0,69	740	CUT
41325	3 x 25	RM	1,2	1.8	24.4	0,727	2,87	1250	CUT
41335	3 x 35	RM	1,2	1.8	25.9	0,524	4,02	1550	CUT
41350	3 x 50	SM	1,4	1.8	25.8	0,387	5,75	1750	CUT
41370	3 x 70	SM	1,4	2.0	29.0	0,268	8,05	2335	CUT
41395	3 x 95	SM	1,6	2.1	33.1	0,193	10,90	3250	CUT
413120	3 x 120	SM	1,6	2.2	36.0	0,153	13,80	3850	CUT
413150	3 x 150	SM	1,8	2.3	40.2	0,124	17,20	4850	CUT
413185	3 x 185	SM	2,0	2.5	44.2	0,0991	21,30	6010	CUT
413240	3 x 240	SM	2,2	2.7	49.9	0,0754	27,60	7810	CUT
413300	3 x 300	SM	2,4	2.9	52.4	0,0601	34,50	9650	CUT
413400	3 x 400	SM	2,6	3.1	59.6	0,047	41,20	12550	CUT

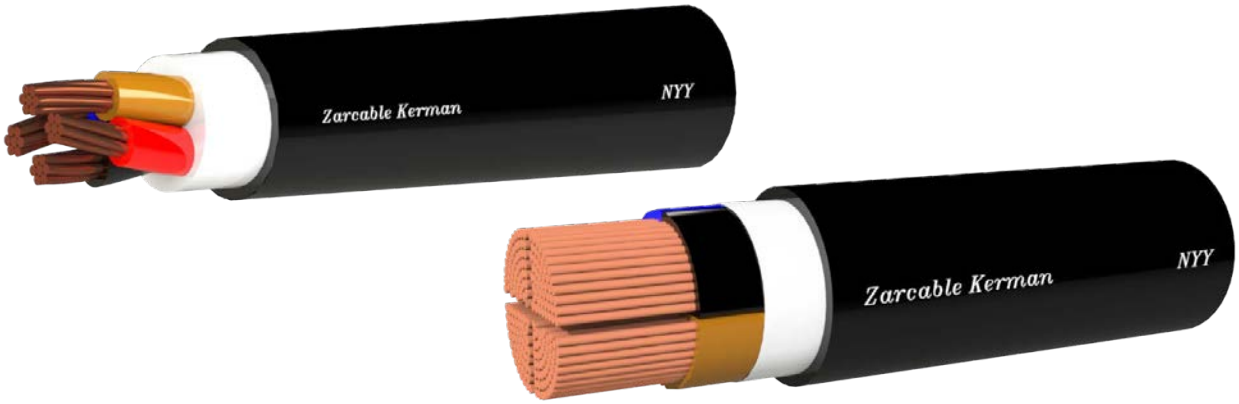
*)Packing: c.100 = coil 100 m, CUT= cable in different lengths on drum or reel, possible cutting at required

Current rating (AC) تU₀/U (0.6/1KV) copper conductors Laid in air

Nominal cross-sectional area **nom.**(mm²)						
	PVC	XLPE	PVC	**XLPE**	PVC	XLPE
1.5	27	33	20	24	21	27
2.5	35	43	26	32	28	36
4	47	57	34	42	37	47
6	59	72	43	53	47	59
10	81	99	59	73	64	81
16	107	131	78	97	84	109
25	144	177	105	132	114	146
35	176	217	129	162	139	179
50	214	265	157	197	169	218
70	270	336	199	250	213	275
95	334	415	246	308	264	336
120	389	485	285	359	307	388
150	446	557	326	412	352	438
185	516	647	374	475	406	501
240	618	775	445	564	483	580
300	711	894	510	649	552	649
400	843	1061	597	761	646	734

NYY 4 x (1.5-400)mm²

CU/PVC/PVC



FLAME RETARDANT AND UV RESISTANT/ REDUCED FLAME PRPPAGATION

Construction

Conductor:	plain annealed copper, class 1 or class 2 acc. to IEC 60228 ≤ 50 mm²: circular solid (RE) or circular stranded (RM), > 50 mm²: sector-shaped stranded (SM)
Insulation:	polyvinyl chloride PVC
Colour code:	Blue, Brown, Black, Red
Laying up:	cores twisted in layers (if necessary with filling element(s))
Inner Covering:	extruded filler of PVC
Sheath:	UV resistant PVC (EN 50363-4-1, DIN VDE 207 TM2)
sheath colour:	Black Ral 9005

Abbreviations
Y insulation & outer sheath of PVC
fl reduced flame propagation

Technical data

Temperature range:

During installation :	-5 °C up to +50 °C
during operation:	-30 °C up to +70 °C
at short circuit of max.	≤ 300 mm²: max. +160 °C > 300 mm²: max. +140 °C
ambient temperature at storage:	up to 40 °C
Nominal voltage:	Uo/U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	8 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

DESIGN STANDARDS

IEC 60502-1
DIN VDE 0276 part 603

APPLICATION

Distribution and signal power cable for static outdoor application (with protection against direct UV-irradiation), in ground, in water, within facilities, in cable canals, in concrete, in conditions where heavier mechanical loads and especially tensile strains, are not expected. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants, same as for connection of signaling devices in industry, traffic and similar.

NYY 4 x (1.5-400)mm²

CU/PVC/ PVC

Code No.	number of cores x conductor cross-section	Construction	Insulation thickness	sheath thickness	External diameter	Cable weight	Packing*
	N x mm²		nom. mm	Nom. mm	nom. mm	Nom. kg/km	
4142516	3 x 25/16	RM/RM	1.2	1.8	25.7	1500	CUT
4143516	3 x 35/16	RM/RM	1.2	1.8	27.0	1780	CUT
415025	3 x 50/25	Sm/RM	1.4	1.9	27.5	2140	CUT
417035	3 x 70 /35	SM/RM	1.4	2.0	30.9	2880	CUT
419550	3 x 95 /50	SM/SM	1.6	2.2	35.6	3870	CUT
4112070	3 x 120 /70	SM/SM	1.6	2.3	38.8	4820	CUT
4115070	3 x 150/70	SM/SM	1.8	2.4	43.1	5830	CUT
4118595	3 x 185/95	SM/SM	2.0	2.6	47.6	7440	CUT
41240120	3 x 240/120	SM/SM	2.2	2.8	53.3	9260	CUT
41300150	3 x 300/150	SM/SM	2.4	3.0	60.5	11550	CUT
414150	4 X 1.5	RM	0.8	1.8	12.4	240	CUT
414151	4 X 1.5	RE	0.8	1.8	11.6	210	CUT
414250	4 X 2.5	RM	0.8	1.8	13.3	300	CUT
414251	4 X 2.5	RE	0.8	1.8	12.3	245	CUT
41440	4 X 4	Rm	1.0	1.8	16.1	450	CUT
41441	4 X 4	RE	1.0	1.8	14.8	380	CUT
41460	4 X 6	RM	1.0	1.8	16.8	560	CUT
41461	4 X 6	RE	1.0	1.8	15.8	450	CUT
414100	4 X 10	RM	1.0	1.8	19.7	780	CUT
414101	4 X 10	RE	1.0	1.8	17.5	650	CUT
414160	4 X 16	RM	1.0	1.8	22.6	1130	CUT
414161	4 X 16	RE	1.0	1.8	19.7	990	CUT
41425	4 X 25	RM	1.2	1.8	26.8	1630	CUT
41435	4 X 35	RM	1.2	1.8	28.2	1995	CUT
41450	4 X 50	SM	1.4	1.9	28.9	2400	CUT
41470	4 X 70	SM	1.4	2.1	32.6	3220	CUT
41495	4 X 95	SM	1.6	2.2	37.2	4270	CUT
414120	4 X 120	SM	1.6	2.4	40.6	5280	CUT
414150	4 X 150	SM	1.8	2.5	45.1	6590	CUT
414185	4 X 185	SM	2.0	2.7	49.8	8110	CUT
414240	4 X 240	SM	2.2	2.9	55.9	13480	CUT
414300	4 X 300	SM	2.4	3.1	61.8	12951	CUT
414400	4 X 400	SM	2.6	3.4	69.8	16700	CUT

*)Packing: c.100 = coil 100 m, CUT= cable in different lengths on drum or reel, possible cutting at required

NYY 5 x (1.5-300)mm²

CU/PVC/PVC

FLAME RETARDANT AND UV RESISTANT/ REDUCED FLAME PRPPAGATION

Construction

Conductor:	plain annealed copper, class 1 or class 2 acc. to IEC 60228 circular solid (RE) or circular stranded (RM),
Insulation:	polyvinyl chloride PVC
Colour code:	Blue, Brown, Black, Red,Y/G
Laying up:	cores twisted in layers (if necessary with filling element(s))
Inner Covering:	extruded filler of PVC
Sheath:	UV resistant PVC (EN 50363-4-1, DIN VDE 207 TM2)
sheath colour:	Black Ral 9005

Abbreviations
Y insulation & outer sheath of PVC
fl reduced flame propagation

Technical data

Temperature range:

During installation :	-5 °C up to +50 °C
during operation:	-30 °C up to +70 °C
at short circuit of max.	≤ 300 mm²: max. +160 °C > 300 mm²: max. +140 °C
ambient temperature at storage:	up to 40 °C
Nominal voltage:	Uo/U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	8 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

DESIGN STANDARDS

IEC 60502-1
DIN VDE 0276 part 603

APPLICATION

Distribution and signal power cable for static outdoor application (with protection against direct UV-irradiation), in ground, in water, within facilities, in cable canals, in concrete, in conditions where heavier mechanical loads and especially tensile strains, are not expected. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants, same as for connection of signaling devices in industry, traffic and similar.

NYY 5 x (1.5-300)mm²

CU/PVC/ PVC

Code No.	Dimensions – number of cores x conductor cross-section	Construction	Insulation thickness	sheath thickness	External diameter	Cable weight	Packing*
			nom.	Nom.	nom.	Nom.	
	N x mm²		mm	mm	mm	kg/km	
415150	5 X 1.5	RM	0.8	1.8	13.3	280	CUT
415151	5 X 1.5	RE	0.8	1.8	12.2	240	CUT
415250	5 X 2.5	RM	0.8	1.8	14.5	350	CUT
415251	5 X 2.5	RE	0.8	1.8	13.3	290	CUT
41540	5 X 4	Rm	1.0	1.8	17.3	530	CUT
41541	5 X 4	RE	1.0	1.8	16.6	450	CUT
41560	5 X 6	RM	1.0	1.8	18.8	670	CUT
41561	5 X 6	RE	1.0	1.8	17.5	490	CUT
415100	5 X 10	RM	1.0	1.8	21.4	940	CUT
415101	5 X 10	RE	1.0	1.8	19.6	690	CUT
415160	5 X 16	RM	1.0	1.8	24.9	1360	CUT
415161	5 X 16	RE	1.0	1.8	22.8	710	CUT
41525	5 X 25	RM	1.2	1.8	29.8	1980	CUT
41535	5 X 35	RM	1.2	1.9	31.6	2460	CUT
41550	5 X 50	RM	1.4	2.0	33.6	3430	CUT
41570	5 X 70	RM	1.4	2.2	41.3	4560	CUT
41595	5 X 95	RM	1.6	2.4	47.8	6180	CUT
415120	5 X 120	RM	1.6	2.5	49.5	7360	CUT
415150	5 X 150	RM	1.8	2.7	57.4	9490	CUT
415185	5 X 185	RM	2.0	2.9	63.8	11560	CUT
415240	5 X 240	RM	2.2	3.1	71.8	14800	CUT
415300	5 X 300	RM	2.4	3.3	78.9	18650	CUT

*)Packing: CUT= cable in different lengths on drum or reel, possible cutting at required

Current rating (AC) تU₀/U (0.6/1KV) copper conductors Laid in air

Nominal cross-sectional area **nom.**(mm²)						
	PVC	XLPE	PVC	**XLPE**	PVC	XLPE
1.5	27	33	20	24	21	27
2.5	35	43	26	32	28	36
4	47	57	34	42	37	47
6	59	72	43	53	47	59
10	81	99	59	73	64	81
16	107	131	78	97	84	109
25	144	177	105	132	114	146
35	176	217	129	162	139	179
50	214	265	157	197	169	218
70	270	336	199	250	213	275
95	334	415	246	308	264	336
120	389	485	285	359	307	388
150	446	557	326	412	352	438
185	516	647	374	475	406	501
240	618	775	445	564	483	580
300	711	894	510	649	552	649
400	843	1061	597	761	646	734