

NYM 2x(1.5-35)mm²

CU/PVC/Filler/PVC



FLEXIBLE SMALL BENDING RADIUS / FLAME RETARDANT AND HYDROCARBON RESISTANT

Construction

Conductor: bare copper conductor acc. to IEC 60228 / HD 383 / DIN VDE 0295
class 1: solid (RE construction)
class 2: multi wire stranded (RM construction)

Insulation: PVC compound T11 acc. to DIN VDE 0281 part 1 / HD 21.1 S4
Filler: cores enveloped in non-vulcanized rubber or plastic compound
Sheath: PVC compound TM1 acc. to DIN VDE 0281 part 1 / HD 21.1 S4

sheath colour: Black Ral 9005 ;Grey Ral 7032 ; Blue Ral 5015

Special Features on Request

- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C

Technical data

Temperature range:

During installation :	+5 °C up to +70 °C
fixed installed:	-30 °C up to +70 °C
at short circuit of max.	5 s: up to 150 °C
ambient temperature at storage:	up to 40 °C

Nominal voltage: U_o/U = 300/500 V
Test voltage: 2000 V

Minimal inner bending radius: 6D

Behavior in fire: IEC 60332-1

Note :

Conductor Shaped 1.5 - 10 mm² supplied in solid (re) or non compacted circular stranded (rm)
conductor shape 16 - 35 mm² supplied in non compacted circular stranded (rm) conductor shape



APPLICATION

Installation cable suitable for household and industrial usage. Laid on or under plaster, in walls or concrete, without special mechanical protection, but not in dry or pre-stressed concrete. Suitable for dry, same as damp or wet environment; for internal or external application (only if the cable is protected against direct sunlight).

DESIGN STANDARDS

HRN HD 21.4 S2
IEC 60227-4
DIN VDE 0250 part 204

NYM 2 x (1.5-35)mm²

CU/PVC/Filler/PVC

Code No	number of cores x conductor cross-section	Construction*	Construction of individual conductor		External diameter (MM)		Conductor resistance at 20 °C		Cable weight Kg/Km	Current-Carrying Capacity at 30°C *in air		Packing*
			nominal	min-max.	max.	nominal	Max. (A)					
122150	2 x 1,5	RE	1 x 1,36	8,4 - 9,8	12,10	115	19	c.100				
122151	2 x 1,5	RM	7 x 0.52	9,0 - 9,4	12,10	130	19	c.100				
122250	2 x 2,5	RE	1 x 1,78	9.8 - 10.4	7.41	164	25	c.100				
122251	2 x 2,5	RM	7 x 0.66	10.3 - 10.6	7.41	177	25	c.100				
122400	2 x 4	RE	1 x 2.2	10.7 - 11,1	4.61	213	34	c.100				
122401	2 x 4	RM	7 x 0.85	11,3 - 11.7	4,61	232	34	c.100				
122600	2 x 6	RE	1 x 2.7	11.7 - 12.1	3.08	274	44	c.100				
122601	2 x 6	RM	7 x 1.04	12.4 - 12.8	3.08	298	44	c.100				
1221000	2 x 10	RE	1 x 3.49	14.9- 15.3	1.83	446	61	c.100				
1221001	2 x 10	RM	7 x 1.35	15.9 - 16.3	1.83	492	61	c.100				
1221601	2 x 16	RM	7 x 1.7	18- 18.4	1.15	678	82	CUT				
1222501	2 x 25	RM	7 x 2.2	21.8 - 22.4	0.727	1061	108	CUT				
1223501	2 x 35	RM	7 x 2.6	23.8 - 24.2	0.524	1319	134	CUT				

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

Nom. Cross Section Area (mm ²)	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)	Insulation Resistance at 70°C Min. (M.Ω.km)	Inductance (mH/km)	Current - Carrying Capacity at 30° C *	
					in air Max. (A)	Short circuit current at 1 sec Max. (kA)
1.5	12.1	14.478	0.010	0.329	19	0.17
2.5	7.41	8.866	0.009	0.318	25	0.29
4	4.61	5.516	0.0077	0.297	34	0.46
6	3.08	3.685	0.0065	0.281	44	0.69
10	1.83	2.190	0.0065	0.278	61	1.15
16	1.15	1.376	0.0052	0.255	82	1.84
25	0.727	0.870	0.0050	0.252	108	2.88
35	0.524	0.627	0.0044	0.244	134	4.03

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYM 3 x (1.5-35)mm²

CU/PVC/Filler/PVC



FLEXIBLE SMALL BENDING RADIUS / FLAME RETARDANT AND HYDROCARBON RESISTANT

Construction

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class 1: solid (RE construction)
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Insulation: PVC compound T11 acc. to DIN VDE 0281 part 1 / HD 21.1 S4
Filler: cores enveloped in non-vulcanized rubber or plastic compound
Sheath: PVC compound TM1 acc. to DIN VDE 0281 part 1 / HD 21.1 S4

sheath colour: Black Ral 9005 ; Grey Ral 7032 ; Blue Ral 5015

Special Features on Request

- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C

Technical data

Temperature range:

During installation :	+5 °C up to +70 °C
fixed installed:	-30 °C up to +70 °C
at short circuit of max. ambient temperature at storage:	5 s: up to 150 °C up to 40 °C

Nominal voltage: U_o/U = 300/500 V
Test voltage: 2000 V

Minimal inner bending radius: 6D

Behavior in fire: IEC 60332-1

Note :

Conductor Shaped 1.5 - 10 mm² supplied in solid (re) or non compacted circular stranded (rm)
conductor shape 16 - 35 mm² supplied in non compacted circular stranded (rm) conductor shape



APPLICATION

Installation cable suitable for household and industrial usage. Laid on or under plaster, in walls or concrete, without special mechanical protection, but not in dry or pre-stressed concrete. Suitable for dry, same as damp or wet environment; for internal or external application (only if the cable is protected against direct sunlight).

DESIGN STANDARDS

HRN HD 21.4 S2
IEC 60227-4
DIN VDE 0250 part 204

NYM 3 x (1.5-35)mm²

CU/PVC/Filler/PVC

Code No	Dimensions – number of cores x conductor cross-section	Construction*	Construction of individual conductor			Cable weight Kg/Km	Current-Carrying Capacity at 30°C *in air	Packing*
			nominal	min-max.	max.			
123150	3 x 1,5	RE	1 x 1,36	9 - 9,4	12,10	139	19	c.100
123151	3 x 1,5	RM	7 x 0.52	9,4 - 9,8	12,10	151	19	c.100
123250	3 x 2,5	RE	1 x 1,78	10.3 - 10.7	7.41	193	25	c.100
123251	3 x 2,5	RM	7 x 0.66	10.8 - 11.2	7.41	207	25	c.100
123400	3 x 4	RE	1 x 2.2	11.3 - 11,7	4.61	255	34	c.100
123401	3 x 4	RM	7 x 0.85	11,9 - 112.3	4,61	276	34	c.100
123600	3 x 6	RE	1 x 2.7	12.8 - 13.2	3.08	345	44	c.100
123601	3 x 6	RM	7 x 1.04	13.6 - 14	3.08	374	44	c.100
1231000	3 x 10	RE	1 x 3.49	15.7- 16.1	1.83	544	61	CUT
1231001	3 x 10	RM	7 x 1.35	16.8 - 17.1	1.83	597	61	CUT
1231601	3 x 16	RM	7 x 1.7	19.5- 19.9	1.15	861	82	CUT
1232501	3 x 25	RM	7 x 2.2	23.6 - 30	0.727	1321	108	CUT
1233501	3 x 35	RM	7 x 2.6	25.2 - 25.6	0.524	1636	134	CUT

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

Nom. Cross Section Area (mm ²)	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)	Insulation Resistance at 70°C Min. (M.Ω.km)	Inductance (mH/km)	Current - Carrying Capacity at 30° C *	
					in air	
					Max. (A)	Short circuit current at 1 sec Max. (kA)
1.5	12.1	14.478	0.010	0.329	19	0.17
2.5	7.41	8.866	0.009	0.318	25	0.29
4	4.61	5.516	0.0077	0.297	34	0.46
6	3.08	3.685	0.0065	0.281	44	0.69
10	1.83	2.190	0.0065	0.278	61	1.15
16	1.15	1.376	0.0052	0.255	82	1.84
25	0.727	0.870	0.0050	0.252	108	2.88
35	0.524	0.627	0.0044	0.244	134	4.03

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYM 4 x (1.5-35)mm²

CU/PVC/Filler/PVC



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- Flame Retardant Cat. A, B, C

Technical data

Temperature range:

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fixed installed:	-30 °C up to +70 °C
at short circuit of max.	5 s: up to 150 °C
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Nominal voltage: U_o/U = 300/500 V
Test voltage: 2000 V

Minimal inner bending radius: 6D

Behavior in fire: IEC 60332-1

Note :

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HRN HD 21.4 S2
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DIN VDE 0250 part 204

NYM 4 × (1.5-35)mm²

CU/PVC/Filler/PVC

Code No	number of cores x conductor cross-section	Construction*	Construction of individual conductor		External diameter (MM)	Conductor resistance at 20 °C		Cable weight Kg/Km	Current-Carrying Capacity at 30°C *in air	
			nominal	min-max.		max.	nominal		Max. (A)	Packing**
124150	4 x 1,5	RE	1 x 1,36	9.7-10.1	12,10	164	19	c.100		
124151	4 x 1,5	RM	7 x 0.52	10.2-10.6	12,10	179	19	c.100		
124250	4 x 2,5	RE	1 x 1,78	11.2-11.6	7.41	232	25	c.100		
124251	4 x 2,5	RM	7 x 0.66	11.7-12.1	7.41	248	25	c.100		
124400	4 x 4	RE	1 x 2.2	12.7-13.1	4.61	321	34	c.100		
124401	4 x 4	RM	7 x 0.85	13.4-13.8	4,61	346	34	c.100		
124600	4 x 6	RE	1 x 2.7	14.3-14.7	3.08	438	44	c.100		
124601	4 x 6	RM	7 x 1.04	15.3-15.7	3.08	473	44	c.100		
1241000	4 x 10	RE	1 x 3.49	17.2-17.6	1.83	668	61	CUT		
1241001	4 x 10	RM	7 x 1.35	18.4-18.8	1.83	731	61	CUT		
1241601	4 x 16	RM	7 x 1.7	21.3-21.7	1.15	1059	82	CUT		
1242501	4 x 25	RM	7 x 2.2	26.3-26.7	0.727	1651	108	CUT		
1243501	4 x 35	RM	7 x 2.6	27.7-28.1	0.524	2019	134	CUT		

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Nom. Cross Section Area (mm ²)	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)	Insulation Resistance at 70°C Min. (M.Ω.km)	Inductance (mH/km)	Current - Carrying Capacity at 30° C *	
					in air	
					Max. (A)	Short circuit current at 1 sec Max. (kA)
1.5	12.1	14.478	0.010	0.329	19	0.17
2.5	7.41	8.866	0.009	0.318	25	0.29
4	4.61	5.516	0.0077	0.297	34	0.46
6	3.08	3.685	0.0065	0.281	44	0.69
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16	1.15	1.376	0.0052	0.255	82	1.84
25	0.727	0.870	0.0050	0.252	108	2.88
35	0.524	0.627	0.0044	0.244	134	4.03

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYM 5 x (1.5-35)mm²

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				nominal	min-max.				
125150	5 x 1,5	RE	1 x 1,36	10.5-10.9	12,10	196	19	c.100	
125151	5 x 1,5	RM	7 x 0.52	11.1-11.5	12,10	214	19	c.100	
125250	5 x 2,5	RE	1 x 1,78	12.1-12.5	7.41	279	25	c.100	
125251	5 x 2,5	RM	7 x 0.66	12.8-13.2	7.41	299	25	c.100	
125400	5 x 4	RE	1 x 2.2	14.2-14.6	4.61	404	34	c.100	
125401	5 x 4	RM	7 x 0.85	15-15.4	4,61	436	34	c.100	
125600	5 x 6	RE	1 x 2.7	15.6-16	3.08	531	44	c.100	
125601	5 x 6	RM	7 x 1.04	16.5-19.9	3.08	572	44	c.100	
1251000	5 x 10	RE	1 x 3.49	18.8-19.2	1.83	814	61	CUT	
1251001	5 x 10	RM	7 x 1.35	20.1-20.5	1.83	892	61	CUT	
1251601	5 x 16	RM	7 x 1.7	23.8-24.2	1.15	1319	82	CUT	
1252501	5 x 25	RM	7 x 2.2	28.8-29.2	0.727	1962	108	CUT	
1253501	5 x 35	RM	7 x 2.6	30.4-30.8	0.524	2416	134	CUT	

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Nom. Cross Section Area (mm ²)	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)	Insulation Resistance at 70°C Min. (M.Ω.km)	Inductance (mH/km)	Current - Carrying Capacity at 30° C *	Short circuit current at 1 sec Max. (kA)
					in air Max. (A)	
1.5	12.1	14.478	0.010	0.329	19	0.17
2.5	7.41	8.866	0.009	0.318	25	0.29
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35	0.524	0.627	0.0044	0.244	134	4.03

*Further information about rating factor for certain cable arrangement can be found on supplementary technical information