MEGHNA Cables
Committed to Quality & Safety

LF-FR LOW VOLTAGE CABLES

PVC Insulated: MEGHNA STAR CABLES low voltage PVC insulated cables are widely used and have a long term permissible operationa temperature of up to 70˚C. These cables can be used either indoors or outdoors as buried, in ducts or cable trays in power and switching stations, local distribution systems, industrial plants and commercial buildings for voltage requirements of 0.6/1.0 kV and up to 1.8/3.0 kV. The cables have perfect bending properties for easy installation and maintenance, which make them the preferred choice for indoor machinery and control equipment application.

XLPE Insulated: MEGHNA STAR CABLES low voltage XLPE insulated cables are excellent insulated material that has several advantages over conventional thermoplastic insulated materials. Some of these advantages include zero halogen, higher durability, longer operational life and excellent chemical resistance. It also has a higher permissible operational temperature of up to 90˚C and hence allows the cables to withstand a greater current rating compared to PVC cables. This variance gets wider as the conductor size increases. This is also the reason XLPE-insulated cables are widely chosen where bigger cables are required for main power supply.

Should there be a requirement for ground emplacement; the armored cable is preferred for higher electrical and mechanical protection. On the other hand, XLPE-insulated cables are less flexible compared to PVC cables, hence making it a less favorable choice for smaller conductor size cables where the current rating advantage is less significant.

LOW VOLTAGE

NYY-LF FR/ NAYY-LF FR

Single Core (Cu or Al/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

VDE 0271/3.69

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV
Permissible Service Voltage: 0.72/1.2 kV

COLOR

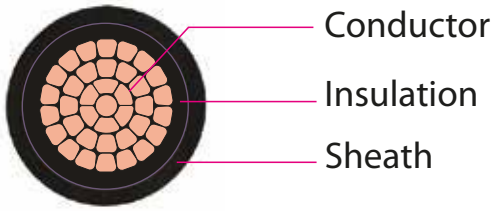
Insulated core : ■ (Black)
Sheath : ■ (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Compacted, Plain annealed Copper or Aluminium, Class-1 or Class-2 to IEC 60228

Insulation: PVC-LF FR, PVC/A to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA							
Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
1 x 1.5	re	1/1.38	0.8	1.8	6.6	65	56
1 x 1.5	rm	7/0.52	0.8	1.8	6.8	68	58
1 x 2.5	re	1/1.78	0.8	1.8	7.2	80	69
1 x 2.5	rm	7/0.68	0.8	1.8	7.4	86	71
1 x 4	rm	7/0.85	1.0	1.8	8.2	113	88
1 x 6	rm	7/1.04	1.0	1.8	8.7	140	102
1 x 10	rm	7/1.35	1.0	1.8	9.7	190	126
1 x 16	rm	7/1.70	1.0	1.8	10.7	262	158
1 x 16	rm	19/1.04	1.0	1.8	11.0	268	160
1 x 25	rm	7/2.14	1.2	1.8	12.4	375	216
1 x 25	rm	19/1.30	1.2	1.8	12.8	385	220
1 x 35	rmc	min. 6	1.2	1.8	13.7	472	262
1 x 50	rmc	min. 6	1.4	1.8	15.6	610	342
1 x 70	rmc	min. 12	1.4	1.8	17.3	846	425
1 x 95	rmc	min. 15	1.6	1.8	19.4	1095	542
1 x 120	rmc	min. 18/15	1.6	1.8	21.0	1338	638
1 x 150	rmc	min. 18/15	1.8	1.8	23.1	1640	790
1 x 185	rmc	min. 30	2.0	2.0	25.6	2026	954
1 x 240	rmc	min. 34/30	2.2	2.0	28.6	2640	1194
1 x 300	rmc	min. 34/30	2.4	2.0	31.3	3250	1451
1 x 400	rmc	min. 53	2.6	2.2	35.3	4220	1880
1 x 500	rmc	min. 53	2.8	2.2	38.0	5283	2320
1 x 630	rmc	min. 53	2.8	2.2	42.0	6515	2775
1 x 800	rmc	min. 53	2.8	2.4	46.2	8162	3190
1 x 1000	rmc	min. 53	3.0	2.6	51.1	10285	3350

Characteristics

Operating Temperature -20°C to 70°C
Maximum Short Circuit 160°C
Rigid
Meter Marking
Flame Retardant
Lead free
Test 3.5kV

Installation condition

Industrial Use
Outdoor Installation
Open air
Buried
In Duct
In water

MEGHNA Cables
Committed to Quality & Safety

NYY-LF FR/ NAYY-LF FR

Single Core (Cu or Al/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

VDE 0271/3.69

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV
Permissible Service Voltage: 0.72/1.2 kV

COLOR

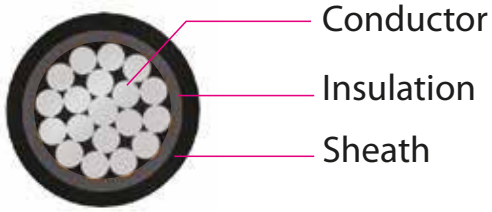
Insulated core : (Black)
Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Compacted, Plain annealed Copper or Aluminium, Class-1 or Class-2 to IEC 60228

Insulation: PVC-LF FR, PVC/A to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
1 x 1.5	re	12.1	18.1	27	20	-	-	22	17	-	-
1 x 1.5	rm	12.1	18.1	27	20	-	-	22	17	-	-
1 x 2.5	re	7.41	12.1	36	30	-	-	30	23	-	-
1 x 2.5	rm	7.41	12.1	36	30	-	-	30	23	-	-
1 x 4	rm	4.61	7.41	47	36	37	29	39	29	31	23
1 x 6	rm	3.08	4.61	59	45	48	36	50	36	41	29
1 x 10	rm	1.83	3.08	78	60	60	46	69	50	53	38
1 x 16	rm	1.15	1.91	100	76	78	60	94	67	73	51
1 x 16	rm	1.15	1.91	100	76	78	60	94	67	73	51
1 x 25	rm	0.727	1.20	130	101	101	80	125	89	97	68
1 x 25	rm	0.727	1.20	130	101	101	90	125	89	97	68
1 x 35	rmc	0.524	0.868	155	119	120	93	160	114	124	87
1 x 50	rmc	0.387	0.641	185	144	144	114	195	138	151	105
1 x 70	rmc	0.268	0.443	225	175	175	138	245	171	190	130
1 x 95	rmc	0.193	0.320	270	211	210	167	300	204	232	153
1 x 120	rmc	0.153	0.253	310	243	240	190	350	242	272	184
1 x 150	rmc	0.124	0.206	350	275	270	216	405	280	314	212
1 x 185	rmc	0.0991	0.164	390	306	302	240	460	320	357	244
1 x 240	rmc	0.0754	0.125	450	351	349	275	555	386	430	292
1 x 300	rmc	0.0601	0.100	515	402	386	306	640	448	448	304
1 x 400	rmc	0.0470	0.0778	585	453	439	345	770	546	540	374
1 x 500	rmc	0.0366	0.0605	680	526	510	400	900	643	630	440
1 x 630	rmc	0.0283	0.0469	800	615	600	467	1030	740	721	510
1 x 800	rmc	0.0221	0.0367	945	724	708	550	1160	836	812	575
1 x 1000	rmc	0.0176	0.0291	1095	835	821	630	1310	949	917	655

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C
Maximum Short Circuit 160°C
Rigid
Meter Marking
Flame Retardant
Lead free
Test 3.5kV

Installation condition

Industrial Use
Outdoor Installation
Open air
Buried
In Duct
In water

MEGHNA Cables
Committed to Quality & Safety

NYY-LF FR / NAYY-LF FR or YY-LF FR / AYY-LF FR

2 Core (Cu or Al/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red & Black)

Sheath : (Black or Other Colors available on request)

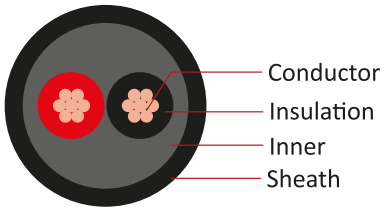
CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Compacted, Plain annealed Copper or Aluminium, Class-1 or Class-2 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
2 x 1.5	re	1/1.38	0.8	1.8	11.0	165	-
2 x 1.5	rm	7/0.52	0.8	1.8	11.2	170	-
2 x 2.5	re	1/1.78	0.8	1.8	12.4	205	-
2 x 2.5	rm	7/0.68	0.8	1.8	12.8	215	-
2 x 4	rm	7/0.85	1.0	1.8	14.5	305	223
2 x 6	rm	7/1.04	1.0	1.8	15.6	375	257
2 x 10	rm	7/1.35	1.0	1.8	17.5	509	314
2 x 16	rm	7/1.70	1.0	1.8	19.5	691	390
2 x 25	rm	7/2.14	1.2	1.8	23.5	1044	518
2 x 35	rmc	min. 6	1.2	1.8	26.0	1330	620

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
2 x 1.5	re	12.1	18.1	25	18	18	-	19	14	16	-
2 x 1.5	rm	12.1	18.1	25	18	18	-	19	14	16	-
2 x 2.5	re	7.41	12.1	34	28	25	-	27	20	21	-
2 x 2.5	rm	7.41	12.1	34	28	25	-	27	20	21	-
2 x 4	rm	4.61	7.41	44	33	33	25	35	25	29	21
2 x 6	rm	3.08	4.61	55	41	42	31	45	31	38	27
2 x 10	rm	1.83	3.08	74	56	58	45	62	43	51	36
2 x 16	rm	1.15	1.91	97	73	74	56	84	57	64	42
2 x 25	rm	0.727	1.20	125	96	97	76	110	74	85	56
2 x 35	rmc	0.524	0.868	150	114	119	92	140	94	108	71

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

NYY-LF FR / NAYY-LF FR or YY-LF FR / AYY-LF FR

3 Core (Cu or Al/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow & Blue)

Sheath : (Black or Other Colors available on request)

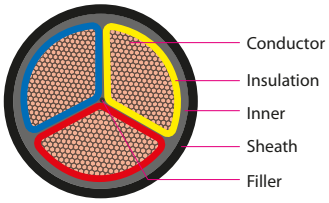
CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Sector shaped, Plain annealed Copper or Aluminium, Class-1 or Class-2 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
3 x 1.5	re	1/1.38	0.8	1.8	11.5	195	-
3 x 1.5	rm	7/0.52	0.8	1.8	11.8	200	-
3 x 2.5	re	1/1.78	0.8	1.8	12.7	250	-
3 x 2.5	rm	7/0.68	0.8	1.8	13.2	260	-
3 x 4	rm	7/0.85	1.0	1.8	15.0	360	260
3 x 6	rm	7/1.04	1.0	1.8	16.4	460	305
3 x 10	rm	7/1.35	1.0	1.8	18.5	625	379
3 x 16	rm	7/1.70	1.0	1.8	21.0	920	480
3 x 25	rm	7/2.14	1.2	1.8	25.0	1320	652
3 x 35	sm	min. 6	1.2	1.8	24.2	1400	804
3 x 50	sm	min. 6	1.4	1.8	25.9	1815	1045
3 x 70	sm	min. 12	1.4	2.0	29.2	2444	1325
3 x 95	sm	min. 15	1.6	2.1	33.4	3350	1735
3 x 120	sm	min. 18/15	1.6	2.2	36.3	4110	2040
3 x 150	sm	min. 18/15	1.8	2.3	39.5	5100	2475
3 x 185	sm	min. 30	2.0	2.5	43.5	6260	3040
3 x 240	sm	min. 34/30	2.2	2.7	48.8	7900	3795
3 x 300	sm	min. 34/30	2.4	2.9	54.1	10000	4700

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 1.5	re	12.1	18.1	22	15	16	-	16	11	13	-
3 x 1.5	rm	12.1	18.1	22	15	16	-	16	11	13	-
3 x 2.5	re	7.41	12.1	30	24	22	-	23	16	19	-
3 x 2.5	rm	7.41	12.1	30	24	22	-	23	16	19	-
3 x 4	rm	4.61	7.41	38	27	29	21	32	22	25	17
3 x 6	rm	3.08	4.61	48	34	37	26	41	27	33	21
3 x 10	rm	1.83	3.08	64	46	49	36	56	37	44	29
3 x 16	rm	1.15	1.91	83	59	64	46	75	48	56	34
3 x 25	rm	0.727	1.20	110	81	82	61	98	62	76	47
3 x 35	sm	0.524	0.868	130	94	99	72	120	74	94	57
3 x 50	sm	0.387	0.641	155	114	119	82	150	93	114	68
3 x 70	sm	0.268	0.443	190	140	146	109	190	116	142	82
3 x 95	sm	0.193	0.320	225	166	178	135	230	134	169	90
3 x 120	sm	0.153	0.253	260	193	201	152	270	162	196	108
3 x 150	sm	0.124	0.206	295	220	229	175	305	180	223	120
3 x 185	sm	0.0991	0.164	330	246	256	195	350	210	262	148
3 x 240	sm	0.0754	0.125	385	286	300	227	410	241	305	168
3 x 300	sm	0.0601	0.100	425	312	332	253	470	278	343	199

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

NYY-LF FR / NAYY-LF FR or YY-LF FR / AYY-LF FR

3 & half Core (Cu or Al/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

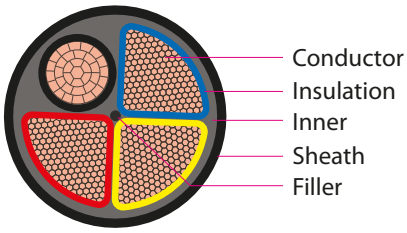
CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped/ compacted, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
3 x 25+16	rm/rm	7/2.14	1.2	1.8	27	1400	910
		7/1.70	1.0				
3 x 35+16	sm/rm	min. 6	1.2	1.8	26.2	1580	920
		7/1.70	1.0				
3 x 50+25	sm/rm	min. 6	1.4	1.9	28.5	2180	1200
		7/2.14	1.2				
3 x 70+35	sm/rmc	min. 12	1.4	2.0	32.5	2910	1505
		min. 6	1.2				
3 x 95+50	sm/rmc	min. 15	1.6	2.2	38.0	3950	2000
		min. 6	1.4				
3 x 120+70	sm/rmc	min. 18/15	1.6	2.3	40.8	5050	2390
		min. 12	1.4				
3 x 150+70	sm/rmc	min. 18/15	1.8	2.4	45.0	6020	2830
		min. 12	1.4				
3 x 185+95	sm/rmc	min. 30	2.0	2.6	50.5	7450	3510
		min.15	1.6				
3 x 240+120	sm/rmc	min. 34/30	2.2	2.8	56.0	9650	4360
		min.18/15	1.6				
3 x 300+150	sm/rmc	min. 34/30	2.4	3.0	63.0	12100	5404
		min. 18/15	1.8				

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25+16	rm/rm	0.727/1.15	1.20/1.91	110	81	86	65	98	62	76	47
3 x 35+16	sm/rm	0.524/1.15	0.868/1.91	130	94	101	74	120	74	93	56
3 x 50+25	sm/rm	0.387/0.727	0.641/1.20	155	114	120	90	150	93	116	70
3 x 70+35	sm/rmc	0.268/0.524	0.443/0.868	190	140	148	111	190	116	148	88
3 x 95+50	sm/rmc	0.193/0.387	0.320/0.641	225	166	175	132	230	134	179	100
3 x 120+70	sm/rmc	0.153/0.268	0.253/0.443	260	193	202	153	270	162	210	122
3 x 150+70	sm/rmc	0.124/0.268	0.206/0.443	295	220	229	175	305	180	237	135
3 x 185+95	sm/rmc	0.0991/0.193	0.164/0.320	330	246	257	196	350	210	272	158
3 x 240+120	sm/rmc	0.0754/0.153	0.125/0.253	383	284	299	226	410	241	318	180
3 x 300+150	sm/rmc	0.0601/0.124	0.100/0.206	425	312	329	250	470	278	364	220

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

MEGHNA Cables
Committed to Quality & Safety

NYY-LF FR / NAYY-LF FR or YY-LF FR / AYY-LF FR

4 Core (Cu or Al/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

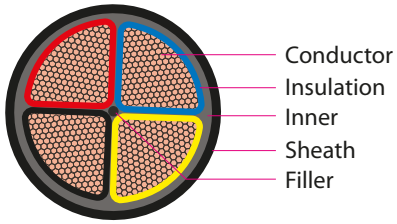
CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Sector shaped, Plain annealed Copper or Aluminium, Class -1 or Class-2 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
4 x 1.5	re	1/1.38	0.8	1.8	12.5	230	-
4 x 1.5	rm	7/0.52	0.8	1.8	13.0	235	-
4 x 2.5	re	1/1.78	0.8	1.8	14.0	305	-
4 x 2.5	rm	7/0.68	0.8	1.8	14.6	312	-
4 x 4	rm	7/0.85	1.0	1.8	16.2	430	290
4 x 6	rm	7/1.04	1.0	1.8	17.5	540	345
4 x 10	rm	7/1.35	1.0	1.8	20.0	760	480
4 x 16	rm	7/1.70	1.0	1.8	23.2	1135	660
4 x 25	rm	7/2.14	1.2	1.8	27.6	1600	900
4 x 35	sm	min. 6	1.2	1.8	26.4	1800	985
4 x 50	sm	min. 6	1.4	1.9	29.0	2460	1310
4 x 70	sm	min. 12	1.4	2.1	33.5	3250	1700
4 x 95	sm	min. 15	1.6	2.2	38.4	4400	2190
4 x 120	sm	min. 18/15	1.6	2.4	41.0	5500	2605
4 x 150	sm	min. 18/15	1.8	2.5	45.2	6800	3210
4 x 185	sm	min. 30	2.0	2.7	50.5	8350	3890
4 x 240	sm	min. 34/30	2.2	2.9	56.0	10700	4925
4 x 300	sm	min. 34/30	2.4	3.1	64.0	13200	5950

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
4 x 1.5	re	12.1	18.1	22	15	16	-	16	11	13	-
4 x 1.5	rm	12.1	18.1	22	15	16	-	16	11	13	-
4 x 2.5	re	7.41	12.1	30	24	22	-	23	16	19	-
4 x 2.5	rm	7.41	12.1	30	24	22	-	23	16	19	-
4 x 4	rm	4.61	7.41	38	27	29	21	32	22	25	17
4 x 6	rm	3.08	4.61	48	34	37	26	41	27	33	21
4 x 10	rm	1.83	3.08	64	46	49	36	56	37	44	29
4 x 16	rm	1.15	1.91	83	59	64	46	75	48	56	34
4 x 25	rm	0.727	1.20	110	81	82	61	98	62	76	47
4 x 35	sm	0.524	0.868	130	94	99	72	120	74	94	57
4 x 50	sm	0.387	0.641	155	114	119	82	150	93	114	68
4 x 70	sm	0.268	0.443	190	140	146	109	190	116	142	82
4 x 95	sm	0.193	0.320	225	166	178	135	230	134	169	90
4 x 120	sm	0.153	0.253	260	193	201	152	270	162	196	108
4 x 150	sm	0.124	0.206	295	220	229	175	305	180	223	120
4 x 185	sm	0.0991	0.164	330	246	256	195	350	210	262	148
4 x 240	sm	0.0754	0.125	385	286	300	227	410	241	305	168
4 x 300	sm	0.0601	0.100	425	312	332	253	470	278	343	199

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

NYY Flexible-LF FR

Single Core (Cu/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Black)

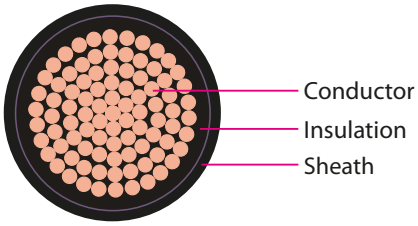
Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Flexible, Plain annealed Copper, Class-5 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA							ELECTRICAL DATA	
Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity at 35 °C ambient temp.
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	Ω/km	Amp
1 x 1.0	rm	32/0.20	0.8	1.8	6.9	60	19.5	15
1 x 1.5	rm	30/0.25	0.8	1.8	7.2	70	13.3	24
1 x 2.5	rm	50/0.25	0.8	1.8	7.8	88	7.98	32
1 x 4.0	rm	56/0.30	1.0	1.8	8.6	110	7.98	41
1 x 6	rm	84/0.30	1.0	1.8	9.3	140	4.95	52
1 x 10	rm	80/0.40	1.0	1.8	10.3	190	3.30	72
1 x 16	rm	126/0.40	1.0	1.8	11.7	265	1.91	98
1 x 25	rm	196/0.40	1.2	1.8	13.6	280	0.780	131
1 x 35	rm	276/0.40	1.2	1.8	15	488	0.554	167
1 x 50	rm	396/0.40	1.4	1.8	17.2	672	0.386	204
1 x 70	rm	360/0.50	1.4	1.8	19.1	890	0.272	256
1 x 95	rm	475/0.50	1.6	1.8	21.6	1170	0.206	314
1 x 120	rm	608/0.50	1.6	1.8	23.4	1428	0.161	366
1 x 150	rm	756/0.50	1.8	1.8	25.7	1750	0.129	423
1 x 185	rm	925/0.50	2.0	2.0	28.5	2190	0.106	478
1 x 240	rm	1221/0.50	2.2	2.0	30.8	2750	0.0801	580
1 x 300	rm	1525/0.50	2.4	2.0	33.5	3400	0.0641	666
1 x 400	rm	2013/0.50	2.6	2.2	38.4	4450	0.0486	800
1 x 500	rm	1769/0.60	2.8	2.2	42.0	5560	0.0384	935
1 x 630	rm	2257/0.60	2.8	2.2	46.4	6940	0.0287	1068

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Flexible

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

NYY Flexible-LF FR / YY Flexible-LF FR

2 Core (Cu/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_o/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red & Black)

Sheath : (Black or Other Colors available on request)

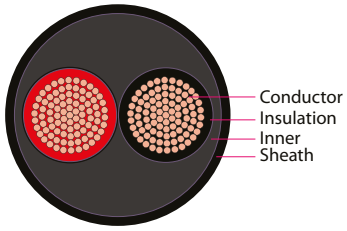
CONSTRUCTION

Conductor: Flexible, Plain annealed Copper, Class-5 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA							ELECTRICAL DATA	
Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity at 35 °C ambient temp.
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	Ω/km	Amp
2 x 1.0	rm	32/0.20	0.8	1.8	11.4	175	19.5	12
2 x 1.5	rm	30/0.25	0.8	1.8	12.1	196	13.3	20
2 x 2.5	rm	50/0.25	0.8	1.8	13.5	242	7.98	30
2 x 4.0	rm	56/0.30	1.0	1.8	15.0	315	4.95	38
2 x 6	rm	84/0.30	1.0	1.8	16.8	400	3.30	46
2 x 10	rm	80/0.40	1.0	1.8	18.4	525	1.91	65
2 x 16	rm	126/0.40	1.0	1.8	22.0	750	1.21	86
2 x 25	rm	196/0.40	1.2	1.8	26.2	1135	0.780	115
2 x 35	rm	276/0.40	1.2	1.8	28.0	1320	0.554	145

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Flexible

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

NYY Flexible-LF FR / YY Flexible-LF FR

3 Core (Cu/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow & Blue)

Sheath : (Black or Other Colors available on request)

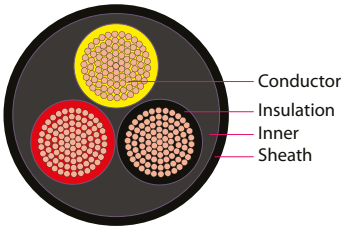
CONSTRUCTION

Conductor: Flexible, Plain annealed Copper, Class 5 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA							ELECTRICAL DATA	
Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity at 35 °C ambient temp.
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	Ω/km	Amp
3 x 1.0	rm	32/0.20	0.8	1.8	12.0	190	19.5	12
3 x 1.5	rm	30/0.25	0.8	1.8	12.5	215	13.3	18
3 x 2.5	rm	50/0.25	0.8	1.8	14.2	290	7.98	25
3 x 4.0	rm	56/0.30	1.0	1.8	16.0	380	4.95	33
3 x 6	rm	84/0.30	1.0	1.8	17.6	485	3.30	44
3 x 10	rm	80/0.40	1.0	1.8	19.8	655	1.91	58
3 x 16	rm	126/0.40	1.0	1.8	23.8	980	1.21	80
3 x 25	rm	196/0.40	1.2	1.8	26.0	1200	0.780	105
3 x 35	rm	276/0.40	1.2	1.8	29.0	1560	0.554	130
3 x 50	rm	396/0.40	1.4	1.8	33.0	2100	0.386	148
3 x 70	rm	360/0.50	1.4	2.0	38.0	2920	0.272	175

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Flexible

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

NYY Flexible-LF FR / YY Flexible-LF FR

4 Core (Cu/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

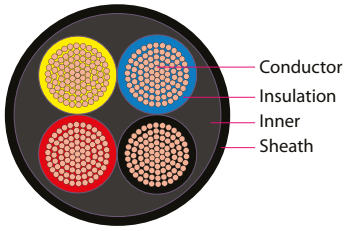
CONSTRUCTION

Conductor: Flexible, Plain annealed Copper, Class 5 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA							ELECTRICAL DATA	
Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity at 35 °C ambient temp.
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	Ω/km	Amp
4 x 1.0	rm	32/0.20	0.8	1.8	13.0	225	19.5	12
4 x 1.5	rm	30/0.25	0.8	1.8	13.6	260	13.3	18
4 x 2.5	rm	50/0.25	0.8	1.8	15.0	245	7.98	25
4 x 4.0	rm	56/0.30	1.0	1.8	17.5	455	4.95	33
4 x 6	rm	84/0.30	1.0	1.8	19.0	575	3.30	44
4 x 10	rm	80/0.40	1.0	1.8	22.0	830	1.91	58
4 x 16	rm	126/0.40	1.0	1.8	25.7	1080	1.21	80
4 x 25	rm	196/0.40	1.2	1.8	28.6	1550	0.780	105
4 x 35	rm	276/0.40	1.2	1.8	32.0	2020	0.554	130
4 x 50	rm	396/0.40	1.4	1.9	37.0	2800	0.386	148
4 x 70	rm	360/0.50	1.4	2.1	42.0	3720	0.272	175

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Flexible

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

NYRaY-LF FR / NAYRaY-LF FR or YRaY-LF FR / AYRaY-LF FR

Single Core (Cu or Al/PVC/AWA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Black)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

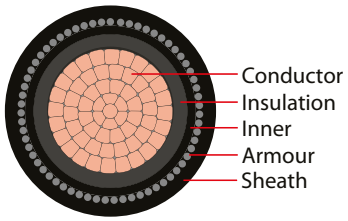
Conductor: Stranded Circular/ Compacted, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Armour: Round Aluminium wire to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal diameter of round aluminium wire armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
1 x 35	rmc	min. 6	1.2	1.25	1.8	17.3	615	290
1 x 50	rmc	min. 6	1.4	1.25	1.8	19.3	770	370
1 x 70	rmc	min. 12	1.4	1.25	1.8	20.8	1000	455
1 x 95	rmc	min. 15	1.6	1.25	1.8	23.3	1265	570
1 x 120	rmc	min. 18/15	1.6	1.6	1.8	25.5	1575	680
1 x 150	rmc	min. 18/15	1.8	1.6	1.8	27.5	1915	800
1 x 185	rmc	min. 30	2.0	1.6	1.8	29.5	2325	950
1 x 240	rmc	min. 34/30	2.2	1.6	1.9	32.3	2920	1195
1 x 300	rmc	min. 34/30	2.4	2.0	2.0	36.0	3620	1485
1 x 400	rmc	min. 53	2.6	2.0	2.1	40.1	4675	1873
1 x 500	rmc	min. 53	2.8	2.0	2.2	43.6	5725	2270
1 x 630	rmc	min. 53	2.8	2.0	2.4	47.2	7025	2760
1 x 800	rmc	min. 53	2.8	2.5	2.5	54.4	8920	3465
1 x 1000	rmc	min. 53	3.0	2.5	2.7	59.3	11020	4250

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
1 x 35	rmc	0.524	0.868	155	119	120	93	160	114	124	87
1 x 50	rmc	0.387	0.641	185	144	144	114	195	138	152	105
1 x 70	rmc	0.268	0.443	225	175	175	138	245	171	191	130
1 x 95	rmc	0.193	0.320	270	211	210	167	300	204	233	153
1 x 120	rmc	0.153	0.253	310	243	240	191	350	242	272	184
1 x 150	rmc	0.124	0.206	350	275	270	216	405	280	314	212
1 x 185	rmc	0.0991	0.164	390	306	302	241	460	320	358	243
1 x 240	rmc	0.0754	0.125	450	351	349	276	555	386	431	292
1 x 300	rmc	0.0601	0.100	515	402	386	307	640	448	448	304
1 x 400	rmc	0.0470	0.0778	585	453	439	345	770	546	540	374
1 x 500	rmc	0.0366	0.0605	680	526	510	400	900	643	630	441
1 x 630	rmc	0.0283	0.0469	800	615	600	467	1030	740	721	508
1 x 800	rmc	0.0221	0.0367	945	724	708	549	1160	836	812	575
1 x 1000	rmc	0.0176	0.0291	1095	835	821	632	1310	949	917	654

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

MEGHNA Cables
Committed to Quality & Safety

NYFGbY-LF FR / NAYFGbY-LF FR or YFGY-LF FR / AYFGY-LF FR

3 Core (Cu or Al/PVC/FSA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow & Blue)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular / Sector shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

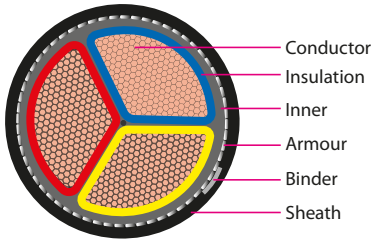
Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Armour: Flat Galvanized Steel strip to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of flat steel strip armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
3 x 25	rm	7/2.14	1.2	0.8	1.8	27.0	1800	1281
3 x 35	sm	min. 6	1.2	0.8	1.8	26.0	1900	1330
3 x 50	sm	min. 6	1.4	0.8	1.9	28.0	2500	1600
3 x 70	sm	min. 12	1.4	0.8	2.0	31.0	3115	1963
3 x 95	sm	min.15	1.6	0.8	2.2	36.4	4325	2478
3 x 120	sm	min. 18/15	1.6	0.8	2.3	39.0	5220	2835
3 x 150	sm	min. 18/15	1.8	0.8	2.4	43.0	6375	3336
3 x 185	sm	min. 30	2.0	0.8	2.6	47.0	7650	3995
3 x 240	sm	min. 34/30	2.2	0.8	2.8	53.0	9650	4864
3 x 300	sm	min. 34/30	2.4	0.8	3.0	58.5	12080	5820

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25	rm	0.727	1.20	110	81	86	61	98	62	76	47
3 x 35	sm	0.524	0.868	130	94	101	72	120	74	93	57
3 x 50	sm	0.387	0.641	155	114	120	82	150	93	116	68
3 x 70	sm	0.268	0.443	190	140	148	109	190	116	148	82
3 x 95	sm	0.193	0.320	225	166	175	135	230	134	179	90
3 x 120	sm	0.153	0.253	260	193	202	152	270	162	210	108
3 x 150	sm	0.124	0.206	295	220	229	175	305	180	237	121
3 x 185	sm	0.0991	0.164	330	246	257	195	350	210	272	148
3 x 240	sm	0.0754	0.125	385	286	299	227	410	241	318	167
3 x 300	sm	0.0601	0.100	425	312	329	253	470	278	364	199

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

NYFGbY-LF FR / NAYFGbY-LF FR or YFGY-LF FR / AYFGY-LF FR

3 & half Core (Cu or Al/PVC/FSA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_o/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Compacted/ Sector shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

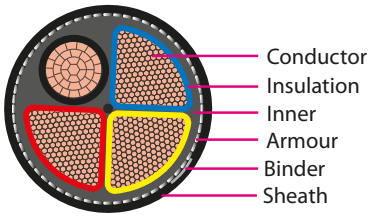
Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Armour: Flat Galvanized Steel strip to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of flat steel strip armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
3 x 25+16	rm/rm	7/2.14	1.2	0.8	1.8	28.9	2010	1434
		7/1.70	1.0					
3 x 35+16	sm/rm	min. 6	1.2	0.8	1.8	28.3	2130	1402
		7/1.70	1.0					
3 x 50+25	sm/rm	min. 6	1.4	0.8	1.9	32.2	3060	1804
		7/2.14	1.2					
3 x 70+35	sm/rmc	min. 12	1.4	0.8	2.1	36.1	3950	2176
		min. 6	1.2					
3 x 95+50	sm/rmc	min. 15	1.6	0.8	2.2	41.0	5110	2775
		min. 6	1.4					
3 x 120+70	sm/rmc	min. 18/15	1.6	0.8	2.3	44.4	6490	3323
		min. 12	1.4					
3 x 150+70	sm/rmc	min. 18/15	1.8	0.8	2.4	48.3	7300	3723
		min. 12	1.4					
3 x 185+95	sm/rmc	min. 30	2.0	0.8	2.6	53.5	9050	5019
		min.15	1.6					
3 x 240+120	sm/rmc	min. 34/30	2.2	0.8	2.8	59.5	11100	5812
		min.18/15	1.6					
3 x 300+150	sm/rmc	min. 34/30	2.4	0.8	3.0	68.0	14400	7009
		min. 18/15	1.8					

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25+16	rm/rm	0.727/1.15	1.20/1.91	110	81	86	65	98	62	76	47
3 x 35+16	sm/rm	0.524/1.15	0.868/1.91	130	94	101	74	120	74	93	56
3 x 50+25	sm/rm	0.387/0.727	0.641/1.20	155	114	120	90	150	93	116	70
3 x 70+35	sm/rmc	0.268/0.524	0.443/0.868	190	140	148	111	190	116	148	88
3 x 95+50	sm/rmc	0.193/0.387	0.320/0.641	225	166	175	132	230	134	179	100
3 x 120+70	sm/rmc	0.153/0.268	0.253/0.443	260	193	202	153	270	162	210	122
3 x 150+70	sm/rmc	0.124/0.268	0.206/0.443	295	220	229	175	305	180	237	135
3 x 185+95	sm/rmc	0.0991/0.193	0.164/0.320	330	246	257	196	350	210	272	158
3 x 240+120	sm/rmc	0.0754/0.153	0.125/0.253	383	284	299	226	410	241	318	180
3 x 300+150	sm/rmc	0.0601/0.124	0.100/0.206	425	312	329	250	470	278	364	220

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

MEGHNA Cables
Committed to Quality & Safety

NYFGbY-LF FR / NAYFGbY-LF FR or YFGY-LF FR / AYFGY-LF FR

4 Core (Cu or Al/PVC/FSA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

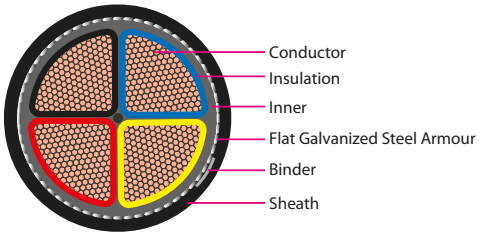
Insulation:

Inner covering: PVC, ST-1 to IEC 60502-1

Armour: Flat Galvanized Steel strip to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath:



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of flat steel strip armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
4 x 25	rm	7/2.14	1.2	0.8	1.8	30.0	2100	1500
4 x 35	sm	min. 6	1.2	0.8	1.8	29.2	2400	1580
4 x 50	sm	min. 6	1.4	0.8	2.0	32.8	3280	2165
4 x 70	sm	min. 12	1.4	0.8	2.1	37.5	4285	2614
4 x 95	sm	min. 15	1.6	0.8	2.2	42.0	5500	3227
4 x 120	sm	min. 18/15	1.6	0.8	2.4	44.4	6800	3687
4 x 150	sm	min. 18/15	1.8	0.8	2.6	48.5	8180	4365
4 x 185	sm	min. 30	2.0	0.8	2.7	54.0	10250	5134
4 x 240	sm	min. 34/30	2.2	0.8	3.0	60.8	12900	6292
4 x 300	sm	min. 34/30	2.4	0.8	3.2	67.5	15400	7394

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
4 x 25	rm	0.727	1.20	110	81	86	65	98	62	76	47
4 x 35	sm	0.524	0.868	130	94	101	74	120	74	93	56
4 x 50	sm	0.387	0.641	155	114	120	90	150	93	116	70
4 x 70	sm	0.268	0.443	190	140	148	111	190	116	148	88
4 x 95	sm	0.193	0.320	225	166	175	132	230	134	179	100
4 x 120	sm	0.153	0.253	260	193	202	153	270	162	210	122
4 x 150	sm	0.124	0.206	295	220	229	175	305	180	237	135
4 x 185	sm	0.0991	0.164	330	246	257	196	350	210	272	158
4 x 240	sm	0.0754	0.125	385	286	299	226	410	241	318	180
4 x 300	sm	0.0601	0.100	425	312	329	250	470	278	364	220

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

NYRGbY-LF FR / NAYRGbY-LF FR or YRGY-LF FR / AYRGY-LF FR

3 Core (Cu or Al/PVC/SWA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_o/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow & Blue)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

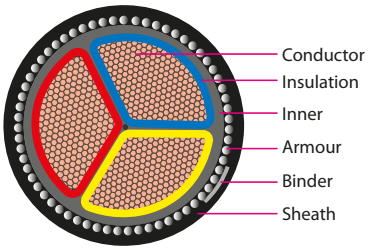
Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Armour: Round Galvanized Steel wire to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal diameter of round steel wire armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
3 x 25	rm	7/2.14	1.2	1.6	1.8	28.5	1755	1276
3 x 35	sm	min. 6	1.2	1.6	1.9	27.8	2080	1415
3 x 50	sm	min. 6	1.4	1.6	2.0	30.7	2650	1698
3 x 70	sm	min. 12	1.4	2.0	2.1	34.6	3700	2362
3 x 95	sm	min. 15	1.6	2.0	2.2	39.0	4750	2943
3 x 120	sm	min. 18/15	1.6	2.0	2.3	42.1	5660	3382
3 x 150	sm	min. 18/15	1.8	2.5	2.5	47.3	7265	4413
3 x 185	sm	min. 30	2.0	2.5	2.7	50.5	8660	5149
3 x 240	sm	min. 34/30	2.2	2.5	2.9	57.0	10819	6245
3 x 300	sm	min. 34/30	2.4	2.5	3.1	61.0	12993	7204

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25	rm	0.727	1.20	110	81	86	61	98	62	76	47
3 x 35	sm	0.524	0.868	130	94	101	72	120	74	93	57
3 x 50	sm	0.387	0.641	155	114	120	82	150	93	116	68
3 x 70	sm	0.268	0.443	190	140	148	109	190	116	148	82
3 x 95	sm	0.193	0.320	225	166	175	135	230	134	179	90
3 x 120	sm	0.153	0.253	260	193	202	152	270	162	210	108
3 x 150	sm	0.124	0.206	295	220	229	175	305	180	237	121
3 x 185	sm	0.0991	0.164	330	246	257	195	350	210	272	148
3 x 240	sm	0.0754	0.125	385	286	299	227	410	241	318	167
3 x 300	sm	0.0601	0.100	425	312	329	253	470	278	364	199

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

MEGHNA Cables
Committed to Quality & Safety

NYRGbY-LF FR / NAYRGbY-LF FR or YRGY-LF FR / AYRGY-LF FR

3 & half Core (Cu or Al/PVC/SWA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_o/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Compacted/ Sector shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

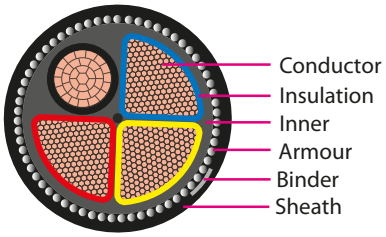
Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Armour: Round Galvanized Steel wire to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal diameter of round steel wire armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
3 x 25+16	rm/rm	7/2.14	1.2	1.6	1.8	30.8	2010	1590
		7/1.70	1.0					
3 x 35+16	sm/rm	min. 6	1.2	1.6	1.9	30.1	2465	1698
		7/1.70	1.0					
3 x 50+25	sm/rm	min. 6	1.4	2.0	2.0	33.5	3250	2140
		7/2.14	1.2					
3 x 70+35	sm/rmc	min. 12	1.4	2.0	2.1	38.7	4310	2752
		min. 6	1.2					
3 x 95+50	sm/rmc	min. 15	1.6	2.0	2.3	43.3	5601	3480
		min. 6	1.4					
3 x 120+70	sm/rmc	min. 18/15	1.6	2.5	2.5	48.0	7159	4435
		min. 12	1.4					
3 x 150+70	sm/rmc	min. 18/15	1.8	2.5	2.6	51.2	8347	5049
		min. 12	1.4					
3 x 185+95	sm/rmc	min. 30	2.0	2.5	2.7	56.1	10000	5888
		min.15	1.6					
3 x 240+120	sm/rmc	min. 34/30	2.2	2.5	2.9	62.3	12383	7049
		min.18/15	1.6					
3 x 300+150	sm/rmc	min. 34/30	2.4	2.5	3.1	68.2	15100	8380
		min. 18/15	1.8					

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25+16	rm/rm	0.727/1.15	1.20/1.91	110	81	86	65	98	62	76	47
3 x 35+16	sm/rm	0.524/1.15	0.868/1.91	130	94	101	74	120	74	93	56
3 x 50+25	sm/rm	0.387/0.727	0.641/1.20	155	114	120	90	150	93	116	70
3 x 70+35	sm/rmc	0.268/0.524	0.443/0.868	190	140	148	111	190	116	148	88
3 x 95+50	sm/rmc	0.193/0.387	0.320/0.641	225	166	175	132	230	134	179	100
3 x 120+70	sm/rmc	0.153/0.268	0.253/0.443	260	193	202	153	270	162	210	122
3 x 150+70	sm/rmc	0.124/0.268	0.206/0.443	295	220	229	175	305	180	237	135
3 x 185+95	sm/rmc	0.0991/0.193	0.164/0.320	330	246	257	196	350	210	272	158
3 x 240+120	sm/rmc	0.0754/0.153	0.125/0.253	383	284	299	226	410	241	318	180
3 x 300+150	sm/rmc	0.0601/0.124	0.100/0.206	425	312	329	250	470	278	364	220

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

NYRGbY-LF FR / NAYRGbY-LF FR or YRGY-LF FR / AYRGY-LF FR

4 Core (Cu or Al/PVC/SWA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

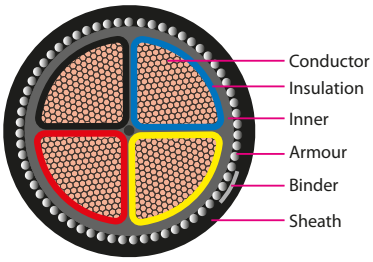
Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering: PVC, ST-1 to IEC 60502-1

Armour: Round Galvanized Steel wire to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal diameter of round steel wire armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
4 x 25	rm	7/2.14	1.2	1.6	1.8	30.0	2135	1497
4 x 35	sm	min. 6	1.2	1.6	1.9	30.1	2620	1733
4 x 50	sm	min. 6	1.4	2.0	2.1	34.5	3525	2257
4 x 70	sm	min. 12	1.4	2.0	2.3	39.5	4675	2892
4 x 95	sm	min. 15	1.6	2.5	2.4	45.2	6450	4044
4 x 120	sm	min. 18/15	1.6	2.5	2.5	48.6	7640	4601
4 x 150	sm	min. 18/15	1.8	2.5	2.7	52.0	9150	5348
4 x 185	sm	min. 30	2.0	2.5	2.9	58.3	11050	6369
4 x 240	sm	min. 34/30	2.2	2.5	3.1	63.0	13850	7751
4 x 300	sm	min. 34/30	2.4	2.5	3.3	70.1	17300	9581

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
4 x 25	rm	0.727	1.20	110	81	86	64.54	98	62	76	47
4 x 35	sm	0.524	0.868	130	94	101	74.1	120	74	93	56
4 x 50	sm	0.387	0.641	155	114	120	89.66	150	93	116	70
4 x 70	sm	0.268	0.443	190	140	148	111	190	116	148	88
4 x 95	sm	0.193	0.320	225	166	175	131.6	230	134	179	100
4 x 120	sm	0.153	0.253	260	193	202	153.2	270	162	210	122
4 x 150	sm	0.124	0.206	295	220	229	174.8	305	180	237	135
4 x 185	sm	0.0991	0.164	330	246	257	195.88	350	210	272	158
4 x 240	sm	0.0754	0.125	385	286	299	226.26	410	241	318	180
4 x 300	sm	0.0601	0.100	425	312	329	249.54	470	278	364	220

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

NYCY-LF FR / YCY-LF FR

3 Core (Cu /PVC/CWS/PVC)

APPLICATION

Power cables for increased electrical and also mechanical protection are required. Those cables are installed in open air, in underground, in water, indoors and in cable ducts. The concentric conductor (C) is allowed to be used as neutral-, protective or earthed conductor. Simultaneously, this also is permitted to apply as a screen for example earth-connected protection against contact.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow & Blue)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped, Plain annealed Copper, Class-2 to IEC 60228

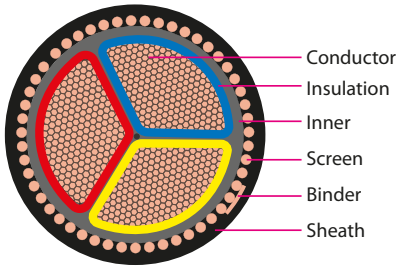
Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Inner covering : PVC, ST-1 to IEC 60502-1

Screen: Solid copper wire concentric

Binder: Helically copper tape

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire	Number & diameter of concentric wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable
Core x mm²	-	no./mm	no./mm	mm	mm	mm	kg/km
3 x 25+16C	rm	7/2.14	19/1.05	1.2	1.8	24.3	1302
3 x 35+16C	sm	min. 6	19/1.05	1.2	1.8	26.2	1623
3 x 50+25C	sm	min. 6	29/1.05	1.4	1.9	30.4	2266
3 x 70+35C	sm	min. 12	35/1.13	1.4	2.1	33.7	3011
3 x 95+50C	sm	min. 15	50/1.13	1.6	2.2	38.4	4005
3 x 120+70C	sm	min. 18	70/1.13	1.6	2.4	42.1	5031
3 x 150+70C	sm	min. 18	70/1.13	1.8	2.5	45.3	6013
3 x 185+95C	sm	min. 30	67/1.35	2.0	2.6	50.1	7458
3 x 240+120C	sm	min. 34	65/1.53	2.2	2.8	55.8	9497
3 x 300+150C	sm	min. 34	72/1.63	2.4	3.2	61.3	11730

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity in Ground at 30 °C		Current Carrying Capacity in Air at 35 °C	
			Direct laid	In duct	Open	In pipes
Core x mm²	-	Ω/km	amp	amp	amp	amp
3 x 25+16C	rm	0.727	110	81	98	62
3 x 35+16C	sm	0.524	130	94	120	74
3 x 50+25C	sm	0.387	155	114	150	93
3 x 70+35C	sm	0.268	190	140	190	116
3 x 95+50C	sm	0.193	225	166	230	134
3 x 120+70C	sm	0.153	260	193	270	162
3 x 150+70C	sm	0.124	295	220	305	180
3 x 185+95C	sm	0.0991	330	246	350	210
3 x 240+120C	sm	0.0754	383	284	410	241
3 x 300+150C	sm	0.0601	425	312	470	278

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

WELDING CABLES-LF FR

Single Core (Cu/PVC Tape/PVC)

APPLICATION

Easy to use inside visible or embedded piping. Direct burial installation or outdoors in wet environments as well as contact with hot parts in not allowed. It must not to be subject to thermic radiation.

VOLTAGE GRADE

200 V

COLOR

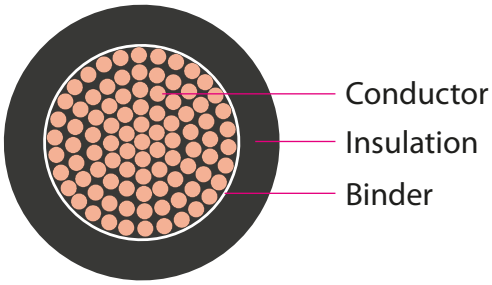
Insulation: ■ (Black)

CONSTRUCTION

Conductor: Flexible, Plain annealed Copper, Class 6 to IEC 60228

Binder (optional): PVC or Non-woven Tape

Insulation: PVC- LF FR, PVC/A to IEC 60502-1



PHYSICAL DATA						ELECTRICAL DATA	
Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire	Nominal thickness of insulation	Approx. Overall diameter	Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity at 35 °C ambient temp.
Core x mm²	-	nos./mm	mm	mm	kg/km	Ω/km	Amp
1 x 25	rm	770/0.20	2.0	12.4	340	0.780	169
1 x 35	rm	1064/0.20	2.0	13.5	440	0.554	215
1 x 50	rm	703/0.30	2.0	15.2	595	0.386	264
1 x 70	rm	988/0.30	2.1	17.4	825	0.272	330
1 x 95	rm	1335/0.30	2.1	19.2	1060	0.206	405
1 x 120	rm	1690/0.3	2.2	21.4	1320	0.161	473
1 x 150	rm	2072/0.30	2.2	22.5	1610	0.129	545
1 x 185	rm	1460/0.40	2.2	25.2	2000	0.106	615
1 x 240	rm	1891/0.40	2.3	27.9	2550	0.0801	730

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Flexible

Flame Retardant

Lead free

Meter Marking

Installation condition

Industrial Use

Outdoor Installation

Open air

MEGHNA Cables
Committed to Quality & Safety

SUBMERSIBLE CABLE-LF FR

3 Core (Cu/PVC/PVC)

APPLICATION

These cables are used to connect under water Submersible Pump sets with supply line.

Agriculture, Irrigation, Domestic installation, Outdoor application & Power supply.

STANDARD

IS 694

VOLTAGE GRADE

Working voltage up to 1100 V

COLOR

Insulated core : (Red, Yellow & Blue)

Sheath : (Black or Other Colors available on request)

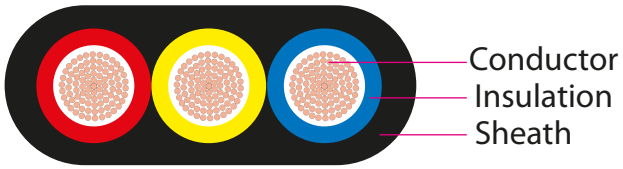
CONSTRUCTION

Conductor: Flexible, Plain annealed Copper, Class 5 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Sheath: PVC- LF FR, ST-1 to IEC 60502-1

(Special grade PVC makes it impervious to water, oil etc. making cable highly durable)



PHYSICAL DATA							ELECTRICAL DATA	
Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter (WxT)	Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity at 35 °C ambient temp.
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	Ω/km	Amp
3 x 1.0	rm	32/0.20	0.6	0.8	9.8 x 4.5	80	19.5	12
3 x 1.5	rm	30/0.25	0.6	0.9	11.0 x 5.0	102	13.3	15
3 x 2.5	rm	50/0.25	0.7	1.0	13.5 x 6.0	154	7.98	20
3 x 4.0	rm	56/0.30	0.8	1.1	16.1 x 6.7	225	4.95	25
3 x 6.0	rm	84/0.30	0.8	1.1	18.0 x 7.6	305	3.30	32
3 x 10	rm	80/0.40	1.0	1.2	22.0 x 9.0	488	1.91	45
3 x 16	rm	126/0.40	1.0	1.3	25.2 x 10.5	700	1.21	57
3 x 25	rm	196/0.40	1.2	1.5	31.2 x 12.5	1065	0.780	72
3 x 35	rm	276/0.40	1.2	1.6	35.0 x 14.2	1420	0.554	90
3 x 50	rm	396/0.40	1.4	1.7	41.5 x 16.2	2000	0.386	115
3 x 70	rm	360/0.50	1.6	1.9	48.8 x 19.1	2805	0.272	143
3 x 95	rm	475/0.50	1.8	2.0	56.0 x 21.5	3650	0.206	165

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Flexible

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

In water

In Duct

MEGHNA Cables
Committed to Quality & Safety

2xY/A2xY-LF FR or N2xY/NA2xY-LF FR

Single Core (Cu or Al/XLPE/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Natural)

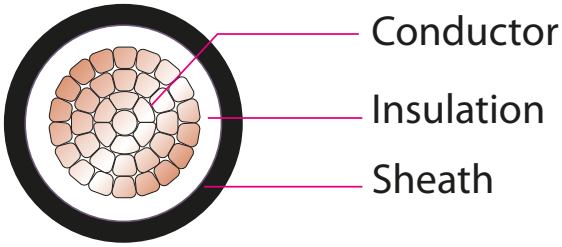
Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Solid or Stranded Circular/ Compacted, Plain annealed Copper or Aluminium, Class 1 or Class-2 to EC 60228

Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
1 x 1.5	re	1/1.38	0.7	1.4	6.1	50	-
1 x 1.5	rm	7/0.52	0.7	1.4	6.2	52	-
1 x 2.5	re	1/1.78	0.7	1.4	6.5	63	-
1 x 2.5	rm	7/0.68	0.7	1.4	6.6	65	-
1 x 4.0	rm	7/0.85	0.7	1.4	7.3	95	55
1 x 6.0	rm	7/1.04	0.7	1.4	7.9	107	66
1 x 10	rm	7/1.35	0.7	1.4	8.8	155	85
1 x 16	rm	7/1.70	0.7	1.4	9.9	227	112
1 x 25	rm	7/2.14	0.9	1.4	11.0	324	160
1 x 35	rmc	min. 6	0.9	1.4	12.1	425	200
1 x 50	rmc	min. 6	1.0	1.4	13.6	584	258
1 x 70	rmc	min. 12	1.1	1.4	15.4	788	335
1 x 95	rmc	min. 15	1.1	1.5	17.1	1041	430
1 x 120	rmc	min. 18/15	1.2	1.5	18.8	1292	531
1 x 150	rmc	min. 18/15	1.4	1.6	21.0	1611	640
1 x 185	rmc	min. 30	1.6	1.6	23.0	1976	775
1 x 240	rmc	min. 34/30	1.7	1.7	25.6	2528	985
1 x 300	rmc	min. 34/30	1.8	1.8	28.3	3136	1210
1 x 400	rmc	min. 53	2.0	1.9	32.0	4130	1525
1 x 500	rmc	min. 53	2.2	2.0	35.4	5134	1890
1 x 630	rmc	min. 53	2.4	2.2	39.5	6415	2420
1 x 800	rmc	min. 53	2.6	2.3	45.0	8116	3000
1 x 1000	rmc	min. 53	2.8	2.4	50.0	10096	3650

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature

Maximum Short Circuit 250°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

2xY/A2xY-LF FR or N2xY/NA2xY-LF FR

Single Core (Cu or Al/XLPE/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Natural)

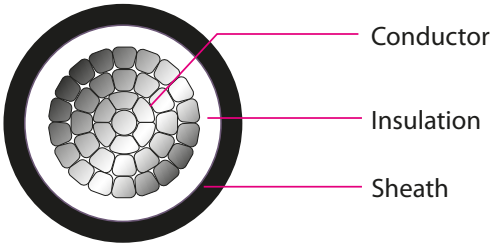
Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Compacted, Plain annealed Copper or Aluminium, Class 1 or Class-2 to IEC 60228

Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
1 x 1.5	re	12.1	18.1	36	27	-		30	22	-	
1 x 1.5	rm	12.1	18.1	36	27	-		30	22	-	
1 x 2.5	re	7.41	12.1	47	36	-		39	27	-	
1 x 2.5	rm	7.41	12.1	47	36	-		39	27	-	
1 x 4.0	rm	4.61	7.41	59	45	47	33	50	35	39	24
1 x 6.0	rm	3.08	4.61	78	60	64	46	69	49	56	36
1 x 10	rm	1.83	3.08	100	76	77	53	94	66	72	44
1 x 16	rm	1.15	1.91	130	100	101	71	125	86	97	58
1 x 25	rm	0.727	1.20	155	116	120	81	160	107	125	72
1 x 35	rmc	0.524	0.868	185	140	144	99	195	129	150	84
1 x 50	rmc	0.387	0.641	225	172	175	122	245	161	190	106
1 x 70	rmc	0.268	0.443	270	206	210	146	300	191	233	124
1 x 95	rmc	0.193	0.320	310	234	240	164	350	232	272	154
1 x 120	rmc	0.153	0.253	350	263	272	185	405	267	315	177
1 x 150	rmc	0.124	0.206	390	295	302	207	460	299	357	196
1 x 185	rmc	0.0991	0.164	450	344	350	244	555	339	430	214
1 x 240	rmc	0.0754	0.125	515	390	400	275	640	393	498	251
1 x 300	rmc	0.0601	0.100	585	443	463	321	770	443	537	210
1 x 400	rmc	0.0470	0.0778	680	524	509	353	900	502	626	228
1 x 500	rmc	0.0366	0.0605	800	606	592	398	1030	566	731	267
1 x 630	rmc	0.0283	0.0469	945	713	696	464	1160	645	837	322
1 x 800	rmc	0.0221	0.0367	1095	847	821	573	1310	788	942	420
1 x 1000	rmc	0.0176	0.0291	1270	1010	952	692	1480	925	1064	509

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature

Maximum Short Circuit 250°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

2xY/A2xY-LF FR or N2xY/NA2xY-LF FR

2 Core (Cu or Al/XLPE/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_o/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red & Black)

Sheath : (Black or Other Colors available on request)

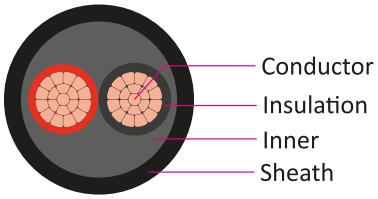
CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Compacted, Plain annealed Copper or Aluminium, Class 1 or Class-2 to IEC 60228

Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
2 x 1.5	re	1/1.38	0.7	1.8	11.2	155	-
2 x 1.5	rm	7/0.52	0.7	1.8	11.6	162	-
2 x 2.5	re	1/1.78	0.7	1.8	12.0	185	-
2 x 2.5	rm	7/0.68	0.7	1.8	12.5	195	-
2 x 4	rm	7/0.85	0.7	1.8	13.6	276	187
2 x 6	rm	7/1.04	0.7	1.8	14.8	349	218
2 x 10	rm	7/1.35	0.7	1.8	16.6	478	271
2 x 16	rm	7/1.70	0.7	1.8	18.1	654	341
2 x 25	rm	7/2.14	0.9	1.8	21.5	996	457
2 x 35	rmc	min. 6	0.9	1.8	23.7	1274	576

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
2 x 1.5	re	12.1	18.1	34	25	-		27	19	-	
2 x 1.5	rm	12.1	18.1	34	25	-		27	19	-	
2 x 2.5	re	7.41	12.1	44	33	-		35	23	-	
2 x 2.5	rm	7.41	12.1	44	33	-		35	23	-	
2 x 4	rm	4.61	7.41	55	41	34	20	45	30	31	16
2 x 6	rm	3.08	4.61	74	56	40	22	62	42	40	20
2 x 10	rm	1.83	3.08	97	73	55	31	84	56	53	25
2 x 16	rm	1.15	1.91	125	95	73	43	110	71	70	31
2 x 25	rm	0.727	1.20	150	111	94	55	140	87	96	43
2 x 35	rmc	0.524	0.868	180	135	114	69	190	124	117	51

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature 90°C

Maximum Short Circuit 250°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

2xY/A2xY-LF FR or N2xY/NA2xY-LF FR

3 Core (Cu or Al/XLPE/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow & Blue)

Sheath : (Black or Other Colors available on request)

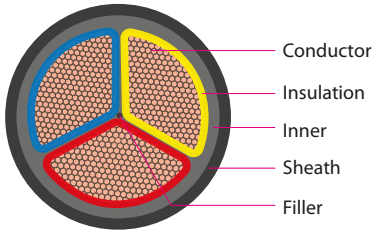
CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Sector Shaped, Plain annealed Copper or Aluminium, Class 1 or Class-2 to IEC 60228

Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
3 x 1.5	re	1/1.38	0.7	1.8	11.8	182	-
3 x 1.5	rm	7/0.52	0.7	1.8	12.2	190	-
3 x 2.5	re	1/1.78	0.7	1.8	12.7	235	-
3 x 2.5	rm	7/0.68	0.7	1.8	12.3	246	-
3 x 4	rm	7/0.85	0.7	1.8	14.5	321	213
3 x 6	rm	7/1.04	0.7	1.8	15.6	421	252
3 x 10	rm	7/1.35	0.7	1.8	17.5	568	320
3 x 16	rm	7/1.7	0.7	1.8	19.6	805	410
3 x 25	rm	7/2.14	0.9	1.8	23.0	1100	500
3 x 35	sm	min. 6	0.9	1.8	22.3	1237	576
3 x 50	sm	min. 6	1.0	1.8	25.1	1694	778
3 x 70	sm	min. 12	1.1	1.9	28.4	2315	983
3 x 95	sm	min. 15	1.1	2.0	32.2	3161	1253
3 x 120	sm	min. 18/15	1.2	2.1	35.3	3915	1570
3 x 150	sm	min. 18/15	1.4	2.3	38.7	4866	2000
3 x 185	sm	min. 30	1.6	2.4	42.5	5978	2470
3 x 240	sm	min. 34/30	1.7	2.6	47.6	7534	3165
3 x 300	sm	min. 34/30	1.8	2.8	53.1	9541	3840

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 1.5	re	12.1	18.1	30	21	-		23	15	-	
3 x 1.5	rm	12.1	18.1	30	21	-		23	15	-	
3 x 2.5	re	7.41	12.1	38	27	-		32	20	-	
3 x 2.5	rm	7.41	12.1	38	27	-		32	20	-	
3 x 4	rm	4.61	7.41	48	34	34	20	41	26	31	16
3 x 6	rm	3.08	4.61	64	46	40	22	56	36	40	20
3 x 10	rm	1.83	3.08	83	59	55	31	75	47	53	25
3 x 16	rm	1.15	1.91	110	80	73	43	98	59	70	31
3 x 25	rm	0.727	1.20	130	91	94	55	120	67	96	43
3 x 35	sm	0.524	0.868	155	110	114	69	150	84	117	51
3 x 50	sm	0.387	0.641	190	137	133	80	190	106	142	58
3 x 70	sm	0.268	0.443	225	161	164	100	230	121	179	70
3 x 95	sm	0.193	0.320	260	184	196	120	270	152	221	103
3 x 120	sm	0.153	0.253	295	208	223	136	305	167	257	119
3 x 150	sm	0.124	0.206	330	235	249	154	350	189	292	131
3 x 185	sm	0.0991	0.164	385	279	282	176	410	194	337	121
3 x 240	sm	0.0754	0.125	425	300	327	202	470	223	400	153
3 x 300	sm	0.0601	0.100	478	336	368	226	564	237	455	128

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

MEGHNA Cables
Committed to Quality & Safety

2xY/A2xY-LF FR or N2xY/NA2xY-LF FR

3 & half Core (Cu or Al/XLPE/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

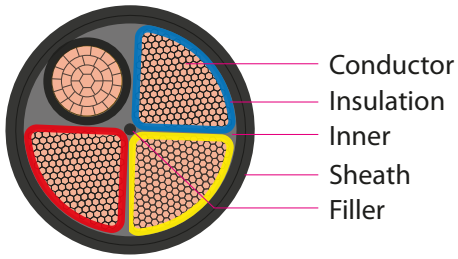
CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Sector Shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
3 x 25+16	rm/rm	7/2.14	0.9	1.8	21.7	1110	637
		7/1.70	0.7				
3 x 35+16	sm/rm	min. 6	0.9	1.8	24.0	1412	702
		7/1.70	0.7				
3 x 50+25	sm/rm	min. 6	1.0	1.8	27.0	2035	946
		7/2.14	0.9				
3 x 70+35	sm/rmc	min. 12	1.1	1.9	30.5	2753	1201
		min. 6	0.9				
3 x 95+50	sm/rmc	min. 15	1.1	2.1	34.9	3721	1553
		min. 6	1.0				
3 x 120+70	sm/rmc	min. 18/15	1.2	2.2	38.2	4912	1898
		min. 12	1.1				
3 x 150+70	sm/rmc	min. 18/15	1.4	2.3	42.1	5673	2334
		min. 12	1.1				
3 x 185+95	sm/rmc	min. 30	1.6	2.5	47.3	7105	2831
		min.15	1.1				
3 x 240+120	sm/rmc	min. 34/30	1.7	2.7	53.8	9219	3601
		min.18/15	1.2				
3 x 300+150	sm/rmc	min. 34/30	1.8	2.9	58.6	11563	4387
		min. 18/15	1.4				

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25+16	rm/rm	0.727/1.15	1.20/1.91	130	91	94	55	120	67	96	43
3 x 35+16	sm/rm	0.524/1.15	0.868/1.91	155	110	114	69	150	84	117	51
3 x 50+25	sm/rm	0.387/0.727	0.641/1.20	190	137	133	80	190	106	142	58
3 x 70+35	sm/rm	0.268/0.524	0.443/0.868	225	161	164	100	230	121	179	70
3 x 95+50	sm/rm	0.193/0.387	0.320/0.641	260	184	196	120	270	152	221	103
3 x 120+70	sm/rm	0.153/0.268	0.253/0.443	295	208	223	136	305	167	257	119
3 x 150+70	sm/rm	0.124/0.268	0.206/0.443	330	235	249	154	350	189	292	131
3 x 185+95	sm/rm	0.0991/0.193	0.164/0.320	385	279	282	176	410	194	337	121
3 x 240+120	sm/rm	0.0754/0.153	0.125/0.253	425	300	327	202	470	223	400	153
3 x 300+150	sm/rm	0.0601/0.124	0.100/0.206	478	336	368	226	564	237	455	128

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

MEGHNA Cables
Committed to Quality & Safety

2xY/A2xY-LF FR or N2xY/NA2xY-LF FR

4 Core (Cu or Al/XLPE/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

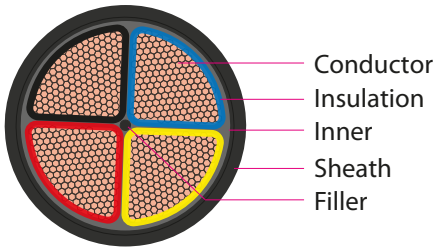
CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Compacted, Plain annealed Copper or Aluminium, Class 1 or Class-2 to IEC 60228

Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
4 x 1.5	re	1/1.38	0.7	1.8	12.1	212	-
4 x 1.5	rm	7/0.52	0.7	1.8	12.4	220	-
4 x 2.5	re	1/1.78	0.7	1.8	13.6	280	-
4 x 2.5	rm	7/0.68	0.7	1.8	14.1	288	-
4 x 4	rm	7/0.85	0.7	1.8	15.4	385	246
4 x 6	rm	7/1.04	0.7	1.8	16.8	488	295
4 x 10	rm	7/1.35	0.7	1.8	19.2	690	378
4 x 16	rm	7/1.7	0.7	1.8	21.5	1060	493
4 x 25	rm	7/2.14	0.9	1.8	23.4	1388	516
4 x 35	sm	min. 6	0.9	1.8	24.5	1624	735
4 x 50	sm	min. 6	1.0	1.9	27.3	2224	970
4 x 70	sm	min. 12	1.1	2.0	30.7	3078	1250
4 x 95	sm	min. 15	1.1	2.1	35.8	4068	1641
4 x 120	sm	min. 18/15	1.2	2.3	38.4	5090	1992
4 x 150	sm	min. 18/15	1.4	2.4	42.3	6308	2488
4 x 185	sm	min. 30	1.6	2.6	48.0	7974	3042
4 x 240	sm	min. 34/30	1.7	2.8	53.6	10212	3917
4 x 300	sm	min. 34/30	1.8	3.0	59.6	12588	4705

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
4 x 1.5	re	12.1	18.1	30	21	-		23	15	-	
4 x 1.5	rm	12.1	18.1	30	21	-		23	15	-	
4 x 2.5	re	7.41	12.1	38	27	-		32	20	-	
4 x 2.5	rm	7.41	12.1	38	27	-		32	20	-	
4 x 4	rm	4.61	7.41	48	34	34	20	41	26	31	16
4 x 6	rm	3.08	4.61	64	46	40	22	56	36	40	20
4 x 10	rm	1.83	3.08	83	59	55	31	75	47	53	25
4 x 16	rm	1.15	1.91	110	80	73	43	98	59	70	31
4 x 25	rm	0.727	1.20	130	91	94	55	120	67	96	43
4 x 35	sm	0.524	0.868	155	110	114	69	150	84	117	51
4 x 50	sm	0.387	0.641	190	137	133	80	190	106	142	58
4 x 70	sm	0.268	0.443	225	161	164	100	230	121	179	70
4 x 95	sm	0.193	0.320	260	184	196	120	270	152	221	103
4 x 120	sm	0.153	0.253	295	208	223	136	305	167	257	119
4 x 150	sm	0.124	0.206	330	235	249	154	350	189	292	131
4 x 185	sm	0.0991	0.164	385	279	282	176	410	194	337	121
4 x 240	sm	0.0754	0.125	425	300	327	202	470	223	400	153
4 x 300	sm	0.0601	0.100	578	436	368	226	564	237	455	128

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

2xRaY/A2xRaY-LF FR or N2xRaY/NA2xRaY-LF FR

Single Core (Cu or Al/XLPE/AWA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Natural)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

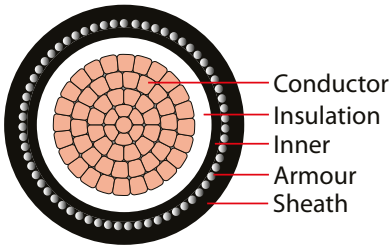
Conductor: Stranded Compacted, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Armour: Round Aluminium wire to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal diameter of round aluminium wire armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
1 x 35	rmc	min. 6	0.9	1.8	1.4	17.3	587	370
1 x 50	rmc	min. 6	1.0	1.8	1.4	19.3	730	456
1 x 70	rmc	min. 12	1.1	1.8	1.4	20.8	957	550
1 x 95	rmc	min. 15	1.1	1.8	1.4	23.3	1202	655
1 x 120	rmc	min. 18/15	1.2	1.8	1.6	25.5	1510	790
1 x 150	rmc	min. 18/15	1.4	1.8	1.6	27.5	1837	930
1 x 185	rmc	min. 30	1.6	1.8	1.6	29.5	2231	1085
1 x 240	rmc	min. 34/30	1.7	1.9	1.6	32.3	2798	1335
1 x 300	rmc	min. 34/30	1.8	1.9	1.6	36.0	3467	1625
1 x 400	rmc	min. 53	2.0	2.1	2.0	40.1	4491	2080
1 x 500	rmc	min. 53	2.2	2.2	2.0	43.6	5509	2505
1 x 630	rmc	min. 53	2.4	2.3	2.0	47.2	6809	3100
1 x 800	rmc	min. 53	2.6	2.5	2.5	54.0	8695	3875
1 x 1000	rmc	min. 53	2.8	2.7	2.5	58.9	10754	4735

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
1 x 35	rmc	0.524	0.868	185	140	144	99	195	129	150	84
1 x 50	rmc	0.387	0.641	225	172	175	122	245	161	190	106
1 x 70	rmc	0.268	0.443	270	206	210	146	300	191	233	124
1 x 95	rmc	0.193	0.320	310	234	240	164	350	232	272	154
1 x 120	rmc	0.153	0.253	350	263	272	185	405	267	315	177
1 x 150	rmc	0.124	0.206	390	295	302	207	460	299	357	196
1 x 185	rmc	0.0991	0.164	450	344	350	244	555	339	430	214
1 x 240	rmc	0.0754	0.125	515	390	400	275	640	393	498	251
1 x 300	rmc	0.0601	0.100	585	443	463	321	770	443	537	210
1 x 400	rmc	0.0470	0.0778	680	524	509	353	900	502	686	288
1 x 500	rmc	0.0366	0.0605	800	606	592	398	1030	566	785	321
1 x 630	rmc	0.0283	0.0469	945	713	696	464	1160	645	855	340
1 x 800	rmc	0.0221	0.0367	1095	847	821	573	1310	788	925	403
1 x 1000	rmc	0.0176	0.0291	1270	1010	952	692	1480	925	1092	537

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

MEGHNA Cables
Committed to Quality & Safety

LOW VOLTAGE

2xFGY/A2xFGY-LF FR or N2xFGY/NA2xFGY-LF FR

3 Core (Cu or Al/XLPE/FSA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow & Blue)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

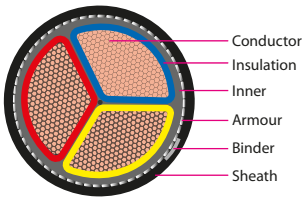
Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Armour: Flat Galvanized Steel strip to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of flat steel strip armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
3 x 25	rm	7/2.14	0.9	0.8	1.8	24.8	1487	1071
3 x 35	sm	min. 6	0.9	0.8	1.8	25.4	1757	1117
3 x 50	sm	min. 6	1.0	0.8	1.9	27.2	2329	1394
3 x 70	sm	min. 12	1.1	0.8	2.0	30.4	2986	1690
3 x 95	sm	min.15	1.1	0.8	2.1	35.2	4136	2053
3 x 120	sm	min. 18/15	1.2	0.8	2.2	38.0	5025	2410
3 x 150	sm	min. 18/15	1.4	0.8	2.4	42.2	6141	2862
3 x 185	sm	min. 30	1.6	0.8	2.5	46.0	7368	3398
3 x 240	sm	min. 34/30	1.7	0.8	2.7	51.8	9584	4147
3 x 300	sm	min. 34/30	1.8	0.8	2.9	56.5	11621	4900

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25	rm	0.727	1.20	130	91	94	55	120	67	96	43
3 x 35	sm	0.524	0.868	155	110	114	69	150	84	117	51
3 x 50	sm	0.387	0.641	190	137	133	80	190	106	142	58
3 x 70	sm	0.268	0.443	225	161	164	100	230	121	179	70
3 x 95	sm	0.193	0.320	260	184	196	120	270	152	221	103
3 x 120	sm	0.153	0.253	295	208	223	136	305	167	257	119
3 x 150	sm	0.124	0.206	330	235	249	154	350	189	292	131
3 x 185	sm	0.0991	0.164	385	279	282	176	410	194	337	121
3 x 240	sm	0.0754	0.125	425	300	327	202	490	243	400	153
3 x 300	sm	0.0601	0.100	578	436	368	226	664	337	455	128

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature

Maximum Short Circuit 250°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

2xFGY/A2xFGY-LF FR or N2xFGY/NA2xFGY-LF FR

3 & half Core (Cu or Al/XLPE/FSA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped/ Compacted, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

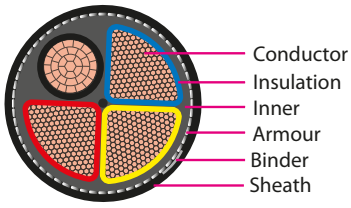
Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Armour: Flat Galvanized Steel strip to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of flat steel strip armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
3 x 25+16	rm/rm	7/2.14	0.9	0.8	1.8	25.9	1744	1299
		7/1.70	0.7					
3 x 35+16	sm/rm	min. 6	0.9	0.8	1.8	27.7	2028	1236
		7/1.70	0.7					
3 x 50+25	sm/rm	min. 6	1.0	0.8	1.9	31.2	2915	1507
		7/2.14	0.9					
3 x 70+35	sm/rmc	min. 12	1.1	0.8	2.0	35.3	3793	1823
		min. 6	0.9					
3 x 95+50	sm/rmc	min. 15	1.1	0.8	2.2	40.0	4881	2262
		min. 6	1.0					
3 x 120+70	sm/rmc	min. 18/15	1.2	0.8	2.3	43.4	6252	2698
		min. 12	1.1					
3 x 150+70	sm/rmc	min. 18/15	1.4	0.8	2.4	47.3	7023	3205
		min. 12	1.1					
3 x 185+95	sm/rmc	min. 30	1.6	0.8	2.6	52.7	8975	3808
		min.15	1.1					
3 x 240+120	sm/rmc	min. 34/30	1.7	0.8	2.8	58.5	10669	4500
		min.18/15	1.2					
3 x 300+150	sm/rmc	min. 34/30	1.8	0.8	2.9	66.6	13863	5435
		min. 18/15	1.4					

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25+16	rm/rm	0.727/1.15	1.20/1.91	130	91	94	55	120	67	96	43
3 x 35+16	sm/rm	0.524/1.15	0.868/1.91	155	110	114	69	150	84	117	51
3 x 50+25	sm/rm	0.387/0.727	0.641/1.20	190	137	133	80	190	106	142	58
3 x 70+35	sm/rmc	0.268/0.524	0.443/0.868	225	161	164	100	230	121	179	70
3 x 95+50	sm/rmc	0.193/0.387	0.320/0.641	260	184	196	120	270	152	221	103
3 x 120+70	sm/rmc	0.153/0.268	0.253/0.443	295	208	223	136	305	167	257	119
3 x 150+70	sm/rmc	0.124/0.268	0.206/0.443	330	235	249	154	350	189	292	131
3 x 185+95	sm/rmc	0.0991/0.193	0.164/0.320	385	279	282	176	410	194	337	121
3 x 240+120	sm/rmc	0.0754/0.153	0.125/0.253	425	300	327	202	490	243	400	153
3 x 300+150	sm/rmc	0.0601/0.124	0.100/0.206	578	436	368	226	664	337	455	128

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

MEGHNA Cables
Committed to Quality & Safety

LOW VOLTAGE

2xFGY/A2xFGY-LF FR or N2xFGY/NA2xFGY-LF FR

4 Core (Cu or Al/XLPE/FSA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

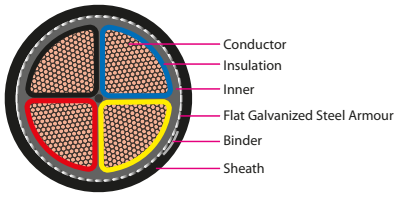
Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Armour: Flat Galvanized Steel strip to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of flat steel strip armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
4 x 25	rm	7/2.14	0.9	0.8	1.8	25.3	1903	1415
4 x 35	sm	min. 6	0.9	0.8	1.8	27.1	2219	1475
4 x 50	sm	min. 6	1.0	0.8	2.0	32.0	3119	1822
4 x 70	sm	min. 12	1.1	0.8	2.1	35.5	4113	2227
4 x 95	sm	min. 15	1.1	0.8	2.2	39.7	5378	2702
4 x 120	sm	min. 18/15	1.2	0.8	2.4	43.6	7140	3168
4 x 150	sm	min. 18/15	1.4	0.8	2.5	47.5	7868	3720
4 x 185	sm	min. 30	1.6	0.8	2.7	53.0	9874	4408
4 x 240	sm	min. 34/30	1.7	0.8	2.9	59.8	12412	5347
4 x 300	sm	min. 34/30	1.8	0.8	3.1	66.1	14788	6281

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
4 x 25	rm	0.727	1.20	130	91	94	55	120	67	96	43
4 x 35	sm	0.524	0.868	155	110	114	69	150	84	117	51
4 x 50	sm	0.387	0.641	190	137	133	80	190	106	142	58
4 x 70	sm	0.268	0.443	225	161	164	100	230	121	179	70
4 x 95	sm	0.193	0.320	260	184	196	120	270	152	221	103
4 x 120	sm	0.153	0.253	295	208	223	136	305	167	257	119
4 x 150	sm	0.124	0.206	330	235	249	154	350	189	292	131
4 x 185	sm	0.0991	0.164	385	279	282	176	410	194	337	121
4 x 240	sm	0.0754	0.125	425	300	327	202	490	243	400	153
4 x 300	sm	0.0601	0.100	578	436	368	226	664	337	445	118

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature

Maximum Short Circuit 250°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

2xRGY/A2xRGY-LF FR or N2xRGY/NA2xRGY-LF FR

3 Core (Cu or Al/XLPE/SWA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_o/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow & Blue)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

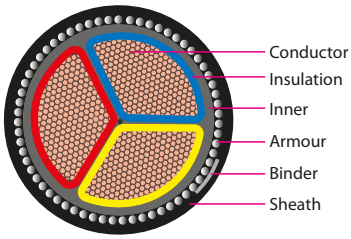
Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Armour: Round Galvanized Steel wire to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal diameter of round steel armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
3 x 25	rm	7/2.14	0.9	1.6	1.8	26.4	1682	1203
3 x 35	sm	min. 6	0.9	1.6	1.8	27.0	1991	1332
3 x 50	sm	min. 6	1.0	1.6	1.9	29.7	2529	1577
3 x 70	sm	min. 12	1.1	2.0	2.1	34.0	3571	2233
3 x 95	sm	min.15	1.1	2.0	2.2	36.8	4561	2756
3 x 120	sm	min. 18/15	1.2	2.0	2.3	41.1	5465	3186
3 x 150	sm	min. 18/15	1.4	2.5	2.5	46.5	7031	4179
3 x 185	sm	min. 30	1.6	2.5	2.6	49.5	8378	4867
3 x 240	sm	min. 34/30	1.7	2.5	2.8	55.8	10453	5879
3 x 300	sm	min. 34/30	1.8	2.5	3.0	59.6	12534	6745

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25	rm	0.727	1.200	130	91	94	55	120	67	96	43
3 x 35	sm	0.524	0.868	155	110	114	69	150	84	117	51
3 x 50	sm	0.387	0.641	190	137	133	80	190	106	142	58
3 x 70	sm	0.268	0.443	225	161	164	100	230	121	179	70
3 x 95	sm	0.193	0.320	260	184	196	120	270	152	221	103
3 x 120	sm	0.153	0.253	295	208	223	136	305	167	257	119
3 x 150	sm	0.124	0.206	330	235	249	154	350	189	292	131
3 x 185	sm	0.0991	0.164	385	279	282	176	410	194	337	121
3 x 240	sm	0.0754	0.125	425	300	327	202	490	243	400	153
3 x 300	sm	0.0601	0.100	578	436	368	226	664	337	455	128

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Installation condition

MEGHNA Cables
Committed to Quality & Safety

2xRGY/A2xRGY-LF FR or N2xRGY/NA2xRGY-LF FR

3 & half Core (Cu or Al/XLPE/SWA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped/ Compacted, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

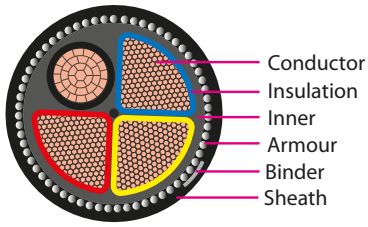
Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Armour: Round Galvanized Steel wire to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal diameter of round steel armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
3 x 25+16	rm/rm	7/2.14	0.9	1.6	1.8	27.5	1919	1337
		7/1.70	0.7					
3 x 35+16	sm/rm	min. 6	0.9	1.6	1.8	29.3	2363	1596
		7/1.70	0.7					
3 x 50+25	sm/rm	min. 6	1.0	1.6	2.0	31.9	3105	1995
		7/2.14	0.9					
3 x 70+35	sm/rmc	min. 12	1.1	2.0	2.1	37.9	4153	2595
		min. 6	0.9					
3 x 95+50	sm/rmc	min. 15	1.1	2.0	2.2	42.1	5372	3251
		min. 6	1.0					
3 x 120+70	sm/rmc	min. 18/15	1.2	2.0	2.4	45.8	6921	4197
		min. 12	1.1					
3 x 150+70	sm/rmc	min. 18/15	1.4	2.5	2.5	50.2	8070	4772
		min. 12	1.1					
3 x 185+95	sm/rmc	min. 30	1.6	2.5	2.7	55.1	9655	5543
		min.15	1.1					
3 x 240+120	sm/rmc	min. 34/30	1.7	2.5	2.9	61.1	11952	6618
		min.18/15	1.2					
3 x 300+150	sm/rmc	min. 34/30	1.8	2.5	3.0	67.0	14563	7837
		min. 18/15	1.4					

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25+16	rm/rm	0.727/1.15	1.20/1.91	130	91	94	55	120	67	96	43
3 x 35+16	sm/rm	0.524/1.15	0.868/1.91	155	110	114	69	150	84	117	51
3 x 50+25	sm/rm	0.387/0.727	0.641/1.20	190	137	133	80	190	106	142	58
3 x 70+35	sm/rmc	0.268/0.524	0.443/0.868	225	161	164	100	230	121	179	70
3 x 95+50	sm/rmc	0.193/0.387	0.320/0.641	260	184	196	120	270	152	221	103
3 x 120+70	sm/rmc	0.153/0.268	0.253/0.443	295	208	223	136	305	167	257	119
3 x 150+70	sm/rmc	0.124/0.268	0.206/0.443	330	235	249	154	350	189	292	131
3 x 185+95	sm/rmc	0.0991/0.193	0.164/0.320	385	279	282	176	410	194	337	121
3 x 240+120	sm/rmc	0.0754/0.153	0.125/0.253	425	300	327	202	490	243	400	153
3 x 300+150	sm/rmc	0.0601/0.124	0.100/0.206	578	436	368	226	664	337	455	128

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

MEGHNA Cables
Committed to Quality & Safety

2xRGY/A2xRGY-LF FR or N2xRGY/NA2xRGY-LF FR

4 Core (Cu or Al/XLPE/SWA/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

IEC 60502-1

DIN VDE 0276-603

VOLTAGE GRADE

U_o/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : (Red, Yellow, Blue & Black)

Sheath : (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Stranded Circular/ Sector shaped, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

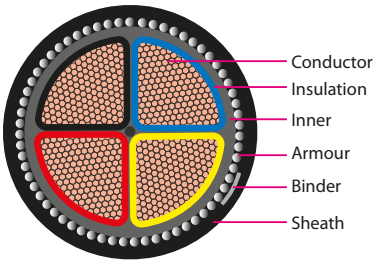
Insulation: Cross-linked Polyethylene, XLPE to IEC 60502-1

Inner covering: PVC, ST-2 to IEC 60502-1

Armour: Round Galvanized Steel wire to IEC 60502-1

Binder (optional): Galvanized Steel tape to IEC 60502-1

Sheath: PVC- LF FR, ST-2 to IEC 60502-1



PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal diameter of round steel armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
4 x 25	rm	7/2.14	0.9	1.6	1.8	28.4	2038	1400
4 x 35	sm	min. 6	0.9	1.6	1.9	29.4	2509	1622
4 x 50	sm	min. 6	1.0	1.6	2.0	33.9	3364	2096
4 x 70	sm	min. 12	1.1	2.0	2.2	38.9	4503	2720
4 x 95	sm	min. 15	1.1	2.0	2.3	43.2	6198	3791
4 x 120	sm	min. 18/15	1.2	2.0	2.5	47.8	7380	4341
4 x 150	sm	min. 18/15	1.4	2.5	2.6	51.2	8838	5036
4 x 185	sm	min. 30	1.6	2.5	2.8	57.5	10674	5993
4 x 240	sm	min. 34/30	1.7	2.5	3.0	62.4	13362	7263
4 x 300	sm	min. 34/30	1.8	2.5	3.2	68.9	16888	8969

ELECTRICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30 °C				Current Carrying Capacity in Air at 35 °C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm²	-	Ω/km	Ω/km	amp	amp	amp	amp	amp	amp	amp	amp
4 x 25	rm	0.727	1.20	130	91	94	55	120	67	96	43
4 x 35	sm	0.524	0.868	155	110	114	69	150	84	117	51
4 x 50	sm	0.387	0.641	190	137	133	80	190	106	142	58
4 x 70	sm	0.268	0.443	225	161	164	100	230	121	179	70
4 x 95	sm	0.193	0.320	260	184	196	120	270	152	221	103
4 x 120	sm	0.153	0.253	295	208	223	136	305	167	257	119
4 x 150	sm	0.124	0.206	330	235	249	154	350	189	292	131
4 x 185	sm	0.0991	0.164	385	279	282	176	410	194	337	121
4 x 240	sm	0.0754	0.125	425	300	327	202	490	243	400	153
4 x 300	sm	0.0601	0.100	578	436	368	226	664	337	445	118

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature 90°C

Maximum Short Circuit 250°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

NYY-1 LF FR / YY-1 LF FR

Multi Core (Cu/PVC/PVC)

APPLICATION

The auxiliary cable is used in supervisory electrical equipment and station control circuits, in light, ordinary or heavy duty industry where power distribution device is needed to transmit control signals or measure signal operations.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_0/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : 1 (Black with number print)

Sheath : (Black or Other Colors available on request)

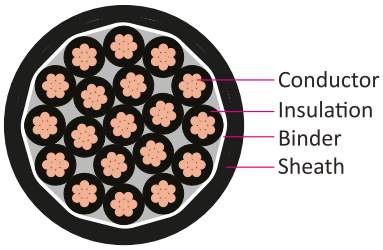
CONSTRUCTION

Conductor: Solid or Stranded Circular, Plain annealed Copper, Class 1 or Class-2 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Binder: Polyester or PVC tape

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA & ELECTRICAL DATA						ELECTRICAL DATA				
Nominal cross sectional area	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity in Ground at 30 °C		Current Carrying Capacity in Air at 35 °C	
							Direct laid	In duct	Open	In pipes
Core x mm²	no./mm	mm	mm	mm	kg/km	Ω/km	amp	amp	amp	amp
5 x 1.5 re	1/1.38	0.8	1.8	12.6	206	12.1	18	14	13	9
7 x 1.5 re	1/1.38	0.8	1.8	13.5	258	12.1	16	12	12	9
10 x 1.5 re	1/1.38	0.8	1.8	16.4	351	12.1	13	10	10	7
12 x 1.5 re	1/1.38	0.8	1.8	16.9	399	12.1	12	9	9	6
16 x 1.5 re	1/1.38	0.8	1.8	18.5	507	12.1	11	8	8	5
21 x 1.5 re	1/1.38	0.8	1.8	20.3	635	12.1	9	6	7	4
24 x 1.5 re	1/1.38	0.8	1.8	22.4	712	12.1	9	6	7	4
30 x 1.5 re	1/1.38	0.8	1.8	23.6	851	12.1	8	5	6	3
5 x 2.5 re	1/1.78	0.8	1.8	14.2	289	7.41	24	19	19	14
7 x 2.5 re	1/1.78	0.8	1.8	15.3	360	7.41	21	16	17	12
10 x 2.5 re	1/1.78	0.8	1.8	18.8	490	7.41	18	14	14	10
12 x 2.5 re	1/1.78	0.8	1.8	19.4	567	7.41	16	12	13	9
16 x 2.5 re	1/1.78	0.8	1.8	21.3	727	7.41	14	10	11	8
21 x 2.5 re	1/1.78	0.8	1.8	23.5	920	7.41	13	9	10	7
24 x 2.5 re	1/1.78	0.8	1.8	26.4	1059	7.41	12	8	9	6
30 x 2.5 re	1/1.78	0.8	1.8	27.8	1274	7.41	10	7	8	5
5 x 4 rm	7/0.85	1.0	1.8	16.8	402	4.61	31	25	25	19
7 x 4 rm	7/0.85	1.0	1.8	18.2	544	4.61	27	22	22	17
10 x 4 rm	7/0.85	1.0	1.8	22.7	708	4.61	23	18	19	15
12 x 4 rm	7/0.85	1.0	1.8	22.4	837	4.61	21	16	17	13

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Rigid

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

NYY-1 Flexible LF FR / YY-1 Flexible LF FR

Multi Core (Cu/PVC/PVC)

APPLICATION

The auxiliary cable is used in supervisory electrical equipment and station control circuits, in light, ordinary or heavy duty industry where power distribution device is needed to transmit control signals or measure signal operations.

STANDARD

IEC 60502-1

VDE 0271/3.69 & DIN VDE 0276-603

VOLTAGE GRADE

U_o/U (Um) : 0.6/1.0 (1.2) kV

Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : 1 (Black with number print)

Sheath : (Black or Other Colors available on request)

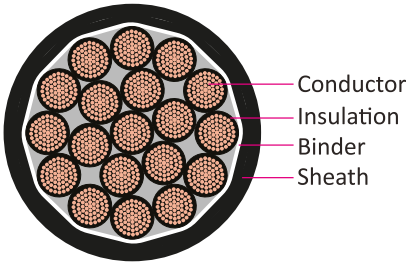
CONSTRUCTION

Conductor: Flexible, Plain annealed Copper, Class 5 to IEC 60228

Insulation: PVC- LF FR, PVC/A to IEC 60502-1

Binder: Polyester or PVC tape

Sheath: PVC- LF FR, ST-1 to IEC 60502-1



PHYSICAL DATA & ELECTRICAL DATA						ELECTRICAL DATA				
Nominal cross sectional area	No. of strands & diameter of wire	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	Max. D.C resistance of conductor at 20 °C	Current Carrying Capacity in Ground at 30 °C		Current Carrying Capacity in Air at 35 °C	
							Direct laid	In duct	Open	In pipes
Core x mm²	no./mm	mm	mm	mm	kg/km	Ω/km	amp	amp	amp	amp
5 x 1.5 rm	30/0.25	0.8	1.8	12.8	220	13.3	20	16	15	11
7 x 1.5 rm	30/0.25	0.8	1.8	13.8	270	13.3	18	14	14	11
10 x 1.5 rm	30/0.25	0.8	1.8	16.7	372	13.3	15	12	12	9
12 x 1.5 rm	30/0.25	0.8	1.8	17.4	420	13.3	14	11	11	8
16 x 1.5 rm	30/0.25	0.8	1.8	19.2	518	13.3	13	10	10	7
21 x 1.5 rm	30/0.25	0.8	1.8	20.6	655	13.3	11	8	9	6
24 x 1.5 rm	30/0.25	0.8	1.8	23.0	750	13.3	10	8	9	6
30 x 1.5 rm	30/0.25	0.8	1.8	24.2	900	13.3	9	7	8	5
5 x 2.5 rm	50/0.25	0.8	1.8	14.4	295	7.98	26	21	21	16
7 x 2.5 rm	50/0.25	0.8	1.8	15.4	370	7.98	23	18	19	14
10 x 2.5 rm	50/0.25	0.8	1.8	19.1	505	7.98	20	16	16	12
12 x 2.5 rm	50/0.25	0.8	1.8	19.8	580	7.98	18	14	15	11
16 x 2.5 rm	50/0.25	0.8	1.8	21.7	740	7.98	16	12	13	10
21 x 2.5 rm	50/0.25	0.8	1.8	24.2	935	7.98	15	11	12	9
24 x 2.5 rm	50/0.25	0.8	1.8	26.8	1070	7.98	14	10	11	8
30 x 2.5 rm	50/0.25	0.8	1.8	28.2	1290	7.98	12	9	10	7
5 x 4 rm	56/0.30	1.0	1.8	16.9	410	4.95	33	27	27	21
7 x 4 rm	56/0.30	1.0	1.8	18.3	550	4.95	29	24	24	19
10 x 4 rm	56/0.30	1.0	1.8	23.0	730	4.95	25	20	21	17
12 x 4 rm	56/0.30	1.0	1.8	33.4	850	4.95	23	18	19	15

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-170.

Characteristics

Operating Temperature -20°C to 70°C

Maximum Short Circuit 160°C

Flexible

Meter Marking

Flame Retardant

Lead free

Test 3.5kV

Installation condition

Industrial Use

Outdoor Installation

Open air

Buried

In Duct

In water

MEGHNA Cables
Committed to Quality & Safety

MEGHNA Cables™

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MEGHNA STAR CABLES

MEGHNA STAR CABLES & ELECTRICAL APPLIANCE LTD.

Meghna Industrial Economic Zone,Sonargaon, Narayanganj, Bangladesh.

HEAD OFFICE- Uday Tower(2nd floor), 57 & 57/A, Gulshan Avenue, Gulshan-1, Dhaka-1212

PHONE: +880 966 677 1313, +880 966 691 1573 WEBSITE: www.meghnastarcables.com