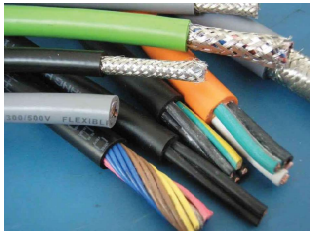
RUBBER CABLES



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MESLA™

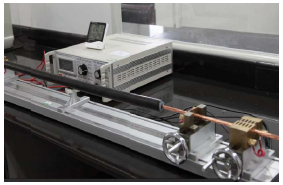
MESLA WIRE & CABLE SDN. BHD

CORPORATE PROFILE

Mesla Wire & Cable Sdn. Bhd. is a prominent cable manufacturing factory situated in Melaka, Malaysia. Founded in 2014, and we underwent a rebranding in 2020, adopting the name Mesla Wire & Cable Sdn Bhd. aa private entity of Malaysia
Mesla Wire & Cable has solidified its presence in the market over the past decade, specializing in the production of high-quality cables to meet various industrial and commercial needs.

Throughout its operational history, Mesla Wire & Cable has consistently demonstrated a commitment to excellence in manufacturing, innovation, and customer satisfaction. The company's state-of-the-art facilities, coupled with a dedicated team of professionals, enable it to produce a wide range of cables that adhere to stringent quality standards.

Located strategically in Melaka, Mesla Wire & Cable benefits from its central position within Malaysia, facilitating efficient distribution networks both domestically and internationally. The company's reputation for reliability, durability, and performance has earned it a trusted status among clients across various industries.



HO7RN-F
HEAVY DUTY RUBBER CABLES

APPLICATION

For general use in dry, humid and wet locations, for outdoor use, for agricultural applications or in locations subject to fire and explosion hazards. Also suitable for connections of industrial and workshop electrical equipment submitted to medium level mechanical stress. Can be used for fixed installations in temporary buildings as well as for connections of mobile machines and hoists. Allowed up to 1000V(600/1000V) alternating voltage within fixed installation in tubes or devices as well as connection cable for motors and similar.

CONSTRUCTION

Fine copper strands, acc.to IEC 60288, BS 6360, class 5
Ethylene-propylene rubber (EPR) insulated EI4 to BS EN 50525-2-21

Insulation Colour:	1 core – black
	2 core – blue, brown
	3 core – green/yellow, brown, blue
	4 core – green/yellow, brown, black, grey
	5 core – green/yellow, blue, brown, black, grey
	6 core & above – green/yellow & black with printed number

Polychloroprene rubber (Neoprene) jacketed EM2

Jacket Colour:	black

TECHNICAL DATA

Rated voltage:	450/750V
Test voltage:	2500V AC
Temperature:	-35°C to +60°C (70°C max)
Flexing bending radius:	6 x Ø
Fixed bending radius:	4 x Ø
Reference standard:	BS EN 50525-2-21

Good mechanical strength
High ozone and weather resistance

HO7RN-F
HEAVY DUTY RUBBER CABLES

transmission of reliability & brightness

No. of cores x Nominal Area (mm^2)	Outer diameter approx. (mm)	Cable Weight Approx. (kg/km)
1x1.5	6.0	55
1x2.5	6.7	73.0
1x4	7.6	99
1x6	8.4	130
1x10	10.5	201
1x16	12.0	280
1x25	14.0	400
1x35	15.5	540
1x50	18.5	750
1x70	21.0	1000
1x95	24.0	1310
1x120	27.0	1630
1x150	30.0	2000
1x185	33.0	2420
1x240	35.0	2980
1x300	40.0	3750
1x400	43.0	4790
1x500	48.0	5930
2x1.0	8.4	100
2x1.5	9.4	130
2x2.5	11.5	190
2x4	13.0	260
2x6	14.5	350
2x10	19.5	620
2x16	22.0	850
2x25	27.0	1250
2x35	30.0	1625
2x50	35.0	2229
5x1.0	11.5	190
5x1.5	12.5	240
5x2.5	15.0	350
5x4	17.0	500

No. of cores x Nominal Area (mm^2)	Outer diameter approx. (mm)	Cable Weight Approx. (kg/km)
5x6	19.0	670
5x10	25.0	1140
5x16	29.0	1610
5x25	35.0	2440
3G1.0	9.1	125
3G1.5	10.1	160
3G2.5	12.0	230
3G4	14.0	320
3G6	15.5	425
3G10	21.0	765
3G16	24.0	1060
3G25	29.0	1560
3G35	33.0	2050
3G50	39.0	2870
3G70	44.0	3780
3G95	51.0	5060
3G120	56.0	6200
3G150	63.0	7680
3G185	69.0	9290
4G1.0	10.0	155
4G1.5	11.5	200
4G2.5	13.5	290
4G4	15.5	400
4G6	17.5	540
4G10	23.0	930
4G16	26.0	1300
4G25	32.0	1950
4G35	36.0	2580
4G50	43.0	3600
4G70	49.0	4800
4G95	57.0	6450
4G120	62.0	7850

HO7RN-F
HEAVY DUTY RUBBER CABLES

No. of cores x Nominal Area (mm^2)	Outer diameter approx. (mm)	Cable Weight Approx. (kg/km)
4G150	70.0	9750
7G1.5	17.0	342
9G1.5	18.5	428
12G1.5	20.0	505
19G1.5	24.0	620
24G1.5	27.0	750

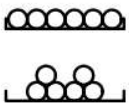
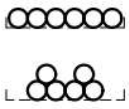
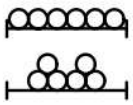
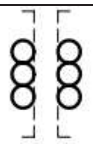
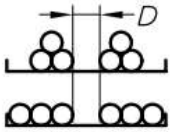
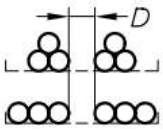
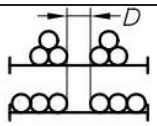
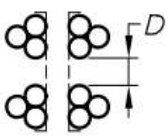
No. of cores x Nominal Area (mm^2)	Outer diameter approx. (mm)	Cable Weight Approx. (kg/km)
27G1.5	28.5	1077
7G2.5	18.5	485
12G2.5	23.5	799
19G2.5	29.0	1100
7G4.0	21.5	703
12G4.0	28.0	1020

Copper Conductor Resistance (mm^2)

Nominal cross-sectional area	Minimum number of wires in the conductor	Maximum diameter of wires in the conductor		Maximum resistance of conductor at 20℃ (Ohm/km)			
	Class 2	Class 5	Class 6	Class 2		Class 5 & Class 6	
(mm^2)		(mm)	(mm)	Plain copper	Tinned copper	Plain copper	Tinned copper
0.5	7	0.21	0.16	36	36.7	39	40.1
0.75	7	0.21	0.16	24.5	24.8	26	26.7
1	7	0.21	0.16	18.1	18.2	19.5	20
1.5	7	0.26	0.16	12.1	12.2	13.3	13.7
2.5	7	0.26	0.16	7.41	7.56	7.98	8.21
4	7	0.31	0.16	4.61	4.70	4.95	5.09
6	7	0.31	0.21	3.08	3.11	3.3	3.39
10	7	0.41	0.21	1.83	1.84	1.91	1.95
16	7	0.41	0.21	1.15	1.16	1.21	1.24
25	7	0.41	0.21	0.727	0.734	0.78	0.795
35	7	0.41	0.21	0.524	0.529	0.554	0.565
50	19	0.41	0.31	0.387	0.391	0.386	0.393
70	19	0.51	0.31	0.268	0.270	0.272	0.277
95	19	0.51	0.31	0.193	0.195	0.206	0.210
120	37	0.51	0.31	0.153	0.154	0.161	0.164
150	37	0.51	0.31	0.124	0.126	0.129	0.132
185	37	0.51	0.41	0.0991	0.1	0.106	0.108
240	61	0.51	0.41	0.0754	0.0762	0.0891	0.0817
300	61	0.51	0.41	0.0601	0.0607	0.0641	0.0654
400	61	0.51		0.0470	0.0475	0.0486	
500	61	0.61		0.0366	0.0369	0.0384	
630	91	0.61		0.0283	0.0286	0.0287	
800	91			0.0221	0.0224		
1000	91			0.0176	0.0177		

Derating Factors For Circuits

Cable Types : Single Core
Installation Conditions : In Trays, Racks, Cleats or other supports in Air

1	2	3	4	5	6	7	8
Item No.	**Installation**		**Number of tiers or rows of cable supports**	**Arrangements Of cables in a circuit**	**Derating factors**		
					Number of circuits per tier or row		
					1	**2**	**3**
1	Unperforated Tray		1	2 or 3 cables in horizontal formation	0.95	0.85	0.84
2			2		0.92	0.83	0.79
3			3		0.91	0.82	0.76
4	Perforated Trays		1	2 or 3 cables in horizontal formation	0.97	0.89	0.87
5			2		0.94	0.85	0.81
6			3		0.93	0.84	0.79
7	Ladder Supports Racks and Cleats		1	2 or 3 cables in horizontal formation	1.00	0.95	0.94
8			2		0.95	0.90	0.88
9			3		0.95	0.89	0.85
10	Vertical Perforated Trays		1	2 or 3 cables in vertical formation	0.94	0.85	—
11			2		0.92	0.83	—
12	Unperforated Trays		1	2 or 3 cables in horizontal formation	0.98	0.96	0.94
13			2		0.95	0.91	0.87
14			3		0.94	0.90	0.85
15	Perforated Trays		1	2 or 3 cables in horizontal formation	1.00	0.98	0.96
16			2		0.97	0.93	0.89
17			3		0.96	0.92	0.86
18	Ladder Supports		1	2 or 3 cables in horizontal formation	1.00	1.00	1.00
19			2		0.97	0.95	0.93
20			3		0.97	0.94	0.90
21	Vertical Perforated Trays		1	2 or 3 cables in vertical formation	1.00	0.91	0.89
22			2		1.00	0.90	0.86