



2MKABLO

SERVO-MOTOR CABLES

2MKABLO 2MSLCHK-JB



2MKABLO

appliCable to life...

About Us

Established in Istanbul in 1993, 2M KABLO, produces standard and special cables for energy, industry, petrochemical, transportation and building sectors, with its fully equipped, state of the art technology, specialist staff and development with open structure in the sector and a pioneering company by considering investment as one of the most important objectives.

2M KABLO, which is located in Tekirdağ with a total area of 25.000 m², has been cooperated the solution partner of many companies and projects in Turkiye and abroad since its establishment. Local sales offices are located in Istanbul and Ankara. 2M KABLO, which incorporated in the year 2024 in United States of America, has a sales office located in Texas.

2M KABLO export to more than 80 countries in 6 continents. 2M KABLO is one of Turkiye's global brand in the cable industry, with export volume increasing every year Export Achievement Award in 2008, the year in 2011 and 2012 was awarded the Honorary Award IMMIB export. 2M KABLO which was listed in Turkiye's second 500 Industrial Enterprises list published by the Istanbul Chamber of Industry (ISO) for the first time in 2016, was also awarded the Best Managed Companies in Turkiye's Cable Industry in 2019 by Deloitte organization.

2M KABLO has quality management system documents which are ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018 and ISO 27001:2013. 2M KABLO has become a R&D center registered by the Ministry of Science, Industry and Technology. 2M KABLO is the first local Low-Voltage cable manufacturer with a registered R&D Center.



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2M KABLO BEST MANAGED COMPANIES
TURKIYE 2019

 **BEST
MANAGED
COMPANIES**
Deloitte.

R&D

Innovation

Since 1993, 2M KABLO has been supporting its customers with new and user-specific product designs.

2M KABLO is the first locally-funded LV cable manufacturer who is awarded with a R&D Centre License by Turkish Government.

With the Cable Builder design program, all data related to the product can be created quickly and accurately.

The Professional engineers in 2M KABLO R&D department make design for 6 different product groups and also special cable types.

2M KABLO's R&D activities are always customer oriented.

2M KABLO invests 5% of its revenue to generate resources for R&D innovation activities. These investments create the success of 2M KABLO.

The R&D center of 2M KABLO, we cooperates with the best research institutes and universities in various projects.

The key factors, which create the success of 2M KABLO, are the high – quality products and technical support capabilities.



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supplier

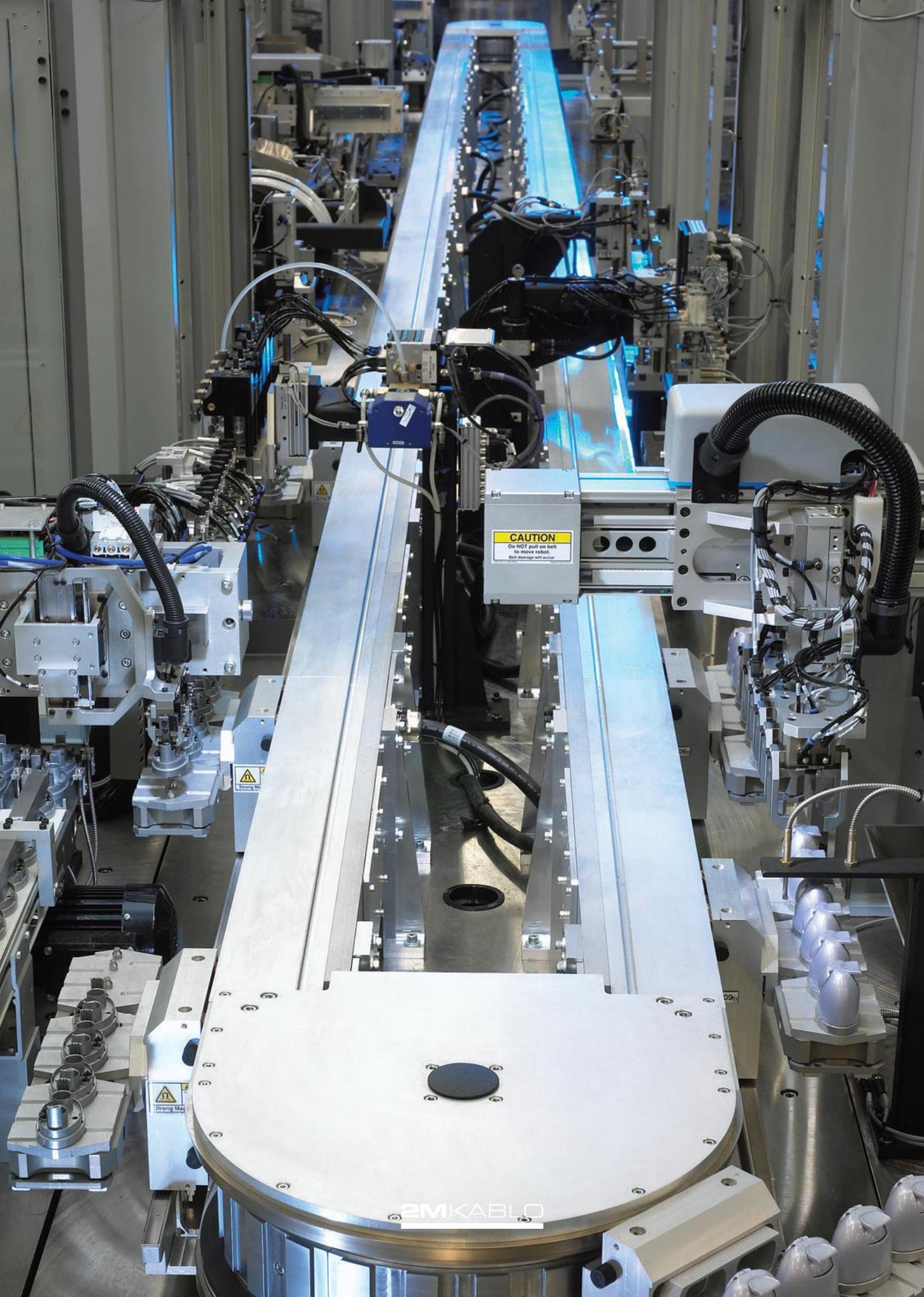
WE ARE THE ONLY CABLE SUPPLIER OF
THE EUROPEAN NUCLEAR RESEARCH
CENTER IN TURKIYE!

Areas of Usage and Features

Servo Motor Cables are developed for frequency-controlled large power drive systems. They are used as connecting cables for high power transmission between frequency converters and large motor drives, reducing the effect of high electromagnetic interference signals. It is suitable for electromagnetic protection and it is suitable for use in narrow spaces with its double screen, low capacity flexible structure.

Usage areas; industrial plants are used in the paper industry and packaging industry, manufacturing and assembly industrial plants, industrial pumps, air conditioning and ventilation systems, chemical, automotive, food industry and conveyor belts.

Black outer sheathed versions are suitable for direct embedding in indoor and outdoor places for fixed installation in dry, humid, wet areas with UV resistance, acidic and oily environments, moderate mechanical stresses. HFFR types are less flammable in case of fire, mostly self extinguishing, have low smoke density and they do not emit poisonous and corrosive gasses during fire.



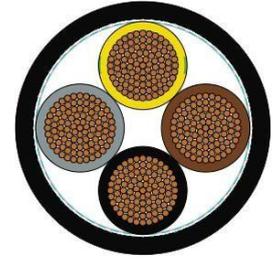
CAUTION
Do NOT pull on belt
to move robot.
Belt damage will occur.

Warning

Strong Magnet

2MKABLO

2XSLCH-JB



Areas of Use

Used in frequency converter controlled motors for control and/or power purposes, and suitable for use in dry, moist or wet environments in heavy industries. HFFR types are less flammable in case of fire, mostly self extinguishing, have low smoke density and they do not emit poisonous and corrosive gasses during fire.

Cable Construction	
Conductor	Stranded Annealed Copper (IEC 60228, Class 5)
Insulation	XLPE (Cross-Linked Polyethylene)
Core Colors	HD 308 S2 (Brown-Black-Grey-Yellow/Green)
Lay-up	Cores stranded together with suitable fillers if necessary
Seperator	PET Foil
Screen	Al-PET Foil + Tinned Copper Wire Braid*
Outer Sheath	Halogen Free Flame Retardant Compound (HFFR/LSZH/LSOH/FRNC), RAL 9005 - Black
Reference Standards	Based on IEC 60502-1

Technical Properties (at 20°C)	
Operating Voltage	0.6/1 kV
Test Voltage	3.5 kV
Temperature Range	Operation: -30 °C.....+90 °C, Installation: -10 °C+90 °C
Flame Retardancy	IEC 60332-1-2, IEC 60332-3-24
Smoke Density	IEC 61034-1/2
Corrosive Gases Measurement	IEC 60754-1/2
Min. Bending Radius	10 x Cable Diameter

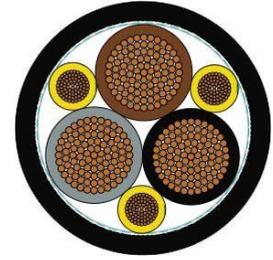
*Screen: The braiding coverage rate can be adjustable as per the customer request.

Cross Section**

Configuration/ Cross Section (mm ²)	Conductor Resistance (Ohm/km)	Cable Diameter (mm)	Copper Weight (kg/km)	Cable Weight (kg/km)
4X1.5	13,30	11,3	63	169
4X2.5	7,98	12,3	97	216
4X4	4,95	13,7	148	286
4X6	3,30	15,1	217	373
4X10	1,91	17,3	361	545
4X16	1,21	19,8	561	778
4X25	0,78	24,1	868	1158
4X35	0,554	26,3	1219	1542
4X50	0,386	30,3	1728	2132
4X70	0,272	35,4	2436	2945
4X95	0,206	41,1	3166	3826
4X120	0,161	45,3	4228	4974
4X150	0,129	52,1	5226	6162
4X185	0,106	56,4	6595	7710
4X240	0,0801	68,1	8299	9755

**Cross Section: The data is given in approximate value in the above table.

2XSLCHK-JB



Areas of Use

Used in frequency converter controlled motors for control and/or power purposes, and suitable for use in dry, moist or wet environments in heavy industries. Symmetrical core oriented type provides smaller cross-section for grounding wires. This structure protects the connected system from high frequency discharge currents. HFFR types are less flammable in case of fire, mostly self extinguishing, have low smoke density and they do not emit poisonous and corrosive gasses during.

Cable Construction	
Conductor	Stranded Annealed Copper (IEC 60228, Class 5)
Insulation	XLPE (Cross-Linked Polyethylene)
Core Colors	HD 308 S2 (Brown-Black-Grey + 3 Cores Yellow/Green)
Lay-up	3 power cores stranded together and 3 ground cores arranged symmetrical in the interstices
Separator	PET Foil
Screen	Al-PET Foil + Tinned Copper Wire Braid*
Outer Sheath	Halogen Free Flame Retardant Compound (HFFR/LSZH/LSOH/FRNC), RAL 9005 - Black
Reference Standards	Based on IEC 60502-1

Technical Properties (at 20°C)	
Operating Voltage	0.6/1 kV
Test Voltage	3.5 kV
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Flame Retardancy	IEC 60332-1-2, IEC 60332-3-24
Smoke Density	IEC 61034-1/2
Corrosive Gases Measurement	IEC 60754-1/2
Min. Bending Radius	10 x Cable Diameter

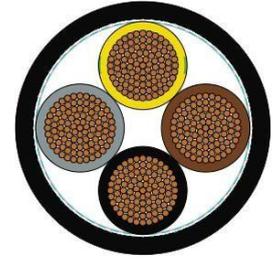
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Cross Section**

Configuration/ Cross Section (mm ²)	Conductor Resistance (Ohm/km)	Cable Diameter (mm)	Copper Weight (kg/km)	Cable Weight (kg/km)
3x1.5+3G0.25	13,30	10,5	56	152
3x2.5+3G0.5	7,98	12,7	90	220
3x4+3G0.75	4,95	13,8	135	280
3x6+3G1	3,30	14,9	193	353
3x10+3G1.5	1,91	16,5	312	491
3x16+3G2.5	1,21	18,6	486	694
3x25+3G4	0,78	21,9	753	1020
3x35+3G6	0,554	24,1	1061	1361
3x50+3G10	0,386	27,9	1564	1932
3x70+3G10	0,272	32,1	2086	2553
3x95+3G16	0,206	37,4	2782	3398
3x120+3G16	0,161	40,7	3520	4192
3x150+3G25	0,129	47,2	4536	5417
3x185+3G35	0,106	50,9	5816	6833
3x240+3G50	0,0801	61,5	7464	8821

**Cross Section: The data is given in approximate value in the above table.

2XSLCY-JB



Areas of Use

Used in frequency converter controlled motors for control and/or power purposes, and suitable for use in dry, moist or wet environments in heavy industries.

Cable Construction	
Conductor	Stranded Annealed Copper (IEC 60228, Class 5)
Insulation	XLPE (Cross-Linked Polyethylene)
Core Colors	HD 308 S2 (Brown-Black-Grey-Yellow/Green)
Lay-up	Cores stranded together with suitable fillers if necessary
Seperator	PET Foil
Screen	Al-PET Foil + Tinned Copper Wire Braid*
Outer Sheath	PVC (Polyvinyl Chloride), RAL 9005 – Black (Transparent outer sheath is available upon request)
Reference Standards	Based on IEC 60502-1
Technical Properties (at 20°C)	
Operating Voltage	0.6/1 kV
Test Voltage	3.5 kV
Temperature Range	Operation: -30 °C.....+90 °C, Installation: -5 °C+70 °C
Flame Retardancy	IEC 60332-1-2
Min. Bending Radius	10 x Cable Diameter

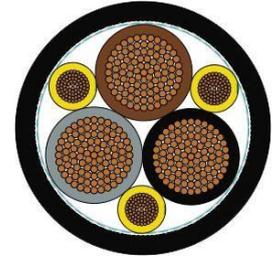
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Cross Section**

Configuration/ Cross Section (mm ²)	Conductor Resistance (Ohm/km)	Cable Diameter (mm)	Copper Weight (kg/km)	Cable Weight (kg/km)
4X1.5	13,30	11,3	63	169
4X2.5	7,98	12,3	97	216
4X4	4,95	13,7	148	286
4X6	3,30	15,1	217	373
4X10	1,91	17,3	361	545
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4X70	0,272	35,4	2436	2945
4,95	0,206	41,1	3166	3826
4X120	0,161	45,3	4228	4974
4X150	0,129	52,1	5226	6162
4X185	0,106	56,4	6595	7710
4X240	0,0801	68,1	8299	9755

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2XSLCYK-JB



Areas of Use

Used in frequency converter controlled motors for control and/or power purposes, and suitable for use in dry, moist or wet environments in heavy industries. Symmetrical core oriented type provides smaller cross-section for grounding wires. This structure protects the connected system from high frequency discharge currents.

Cable Construction	
Conductor	Stranded Annealed Copper (IEC 60228, Class 5)
Insulation	XLPE (Cross-Linked Polyethylene)
Core Colors	HD 308 S2 (Brown-Black-Grey + 3 Cores Yellow/Green)
Lay-up	3 power cores twisted together and 3 ground cores arranged symmetrical in the interstices
Seperator	PET Foil
Screen	Al-PET Foil + Tinned Copper Wire Braid*
Outer Sheath	PVC (Polyvinyl Chloride), RAL 9005 – Black (Transparent outer sheath is available upon request)
Reference Standards	Based on IEC 60502-1

Technical Properties (at 20°C)	
Operating Voltage	0.6/1 kV
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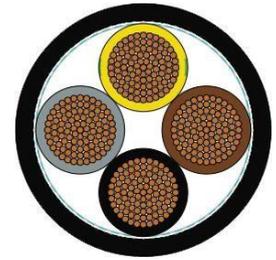
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3x120+3G16	0,161	40,7	3520	4192
3x150+3G25	0,129	47,2	4536	5417
3x185+3G35	0,106	50,9	5816	6833
3x240+3G50	0,0801	61,5	7464	8821

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2YSLCH-JB



Areas of Use

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Cable Construction	
Conductor	Stranded Annealed Copper (IEC 60228, Class 5)
Insulation	PE (Polyethylene)
Core Colors	HD 308 S2 (Brown-Black-Grey-Yellow/Green)
Lay-up	Cores stranded together with suitable fillers if necessary
Seperator	PET Foil
Screen	Al-PET Foil + Tinned Copper Wire Braid*
Outer Sheath	Halogen Free Flame Retardant Compound (HFFR/LSZH/LSOH/FRNC), RAL 9005 - Black
Reference Standards	Based on IEC 60502-1

Technical Properties (at 20°C)	
Operating Voltage	0.6/1 kV
Test Voltage	3.5 kV
Temperature Range	Operation: -30 °C.....+70 °C, Installation: -10 °C+70 °C
Flame Retardancy	IEC 60332-1-2, IEC 60332-3-24
Smoke Density	IEC 61034-1/2
Corrosive Gases Measurement	IEC 60754-1/2
Min. Bending Radius	10 x Cable Diameter

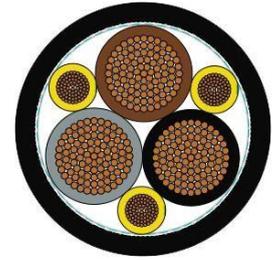
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4x185	0,106	56,4	6595	7710
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2YSLCHK-JB



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Cable Construction	
Conductor	Stranded Annealed Copper (IEC 60228, Class 5)
Insulation	PE (Polyethylene)
Core Colors	HD 308 S2 (Brown-Black-Grey + 3 Cores Yellow/Green)
Lay-up	3 power cores twisted together and 3 ground cores arranged symmetrical in the interstices
Seperator	PET Foil
Screen	Al-PET Foil + Tinned Copper Wire Braid*
Outer Sheath	Halogen Free Flame Retardant Compound (HFFR/LSZH/LSOH/FRNC), RAL 9005 - Black
Reference Standards	Based on IEC 60502-1

Technical Properties (at 20°C)	
Operating Voltage	0.6/1 kV
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Temperature Range	Operation: -30 °C.....+70 °C, Installation: -10 °C+70 °C
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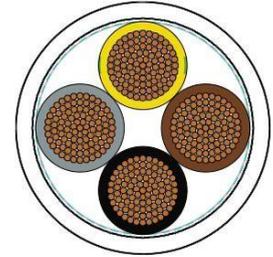
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3x120+3G16	0,161	40,7	3520	4192
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3x185+3G35	0,106	50,9	5816	6833
3x240+3G50	0,0801	61,5	7464	8821

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2YSLCY-JB



Areas of Use

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Cable Construction	
Conductor	Stranded Annealed Copper (IEC 60228, Class 5)
Insulation	PE (Polyethylene)
Core Colors	HD 308 S2 (Brown-Black-Grey-Yellow/Green)
Lay-up	Cores stranded together with suitable fillers if necessary
Separator	PET Foil
Screen	Al-PET Foil + Tinned Copper Wire Braid*
Outer Sheath	PVC (Polyvinyl Chloride) Transparent (other colors upon request)
Reference Standards	Based on IEC 60502-1

Technical Properties (at 20°C)	
Operating Voltage	0.6/1 kV
Test Voltage	3.5 kV
Temperature Range	Operation: -30 °C.....+70 °C, Installation: -5 °C+70 °C
Flame Retardancy	IEC 60332-1-2
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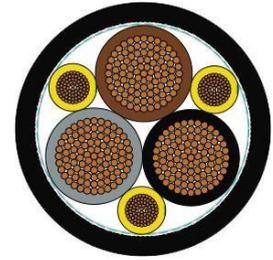
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2YSLCYK-JB



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Technical Properties (at 20°C)	
Operating Voltage	0.6/1 kV
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Cross Section**

Configuration/ Cross Section (mm ²)	Conductor Resistance (Ohm/km)	Cable Diameter (mm)	Copper Weight (kg/km)	Cable Weight (kg/km)
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3x185+3G35	0,106	50,9	5816	6833
3x240+3G50	0,0801	61,5	7464	8821

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"This document has been prepared for general purpose and covers only performance, weight and dimensions of the cable. Core identification, sheathing colour/markings may be different and can be modified upon request
2M Kablo reserves the rights of changing the specified values and dimensions without any prior notice."

2MKABLO

2MKABLO

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