Elpar
CABLE FACTORY

PRODUCTION PROGRAMME

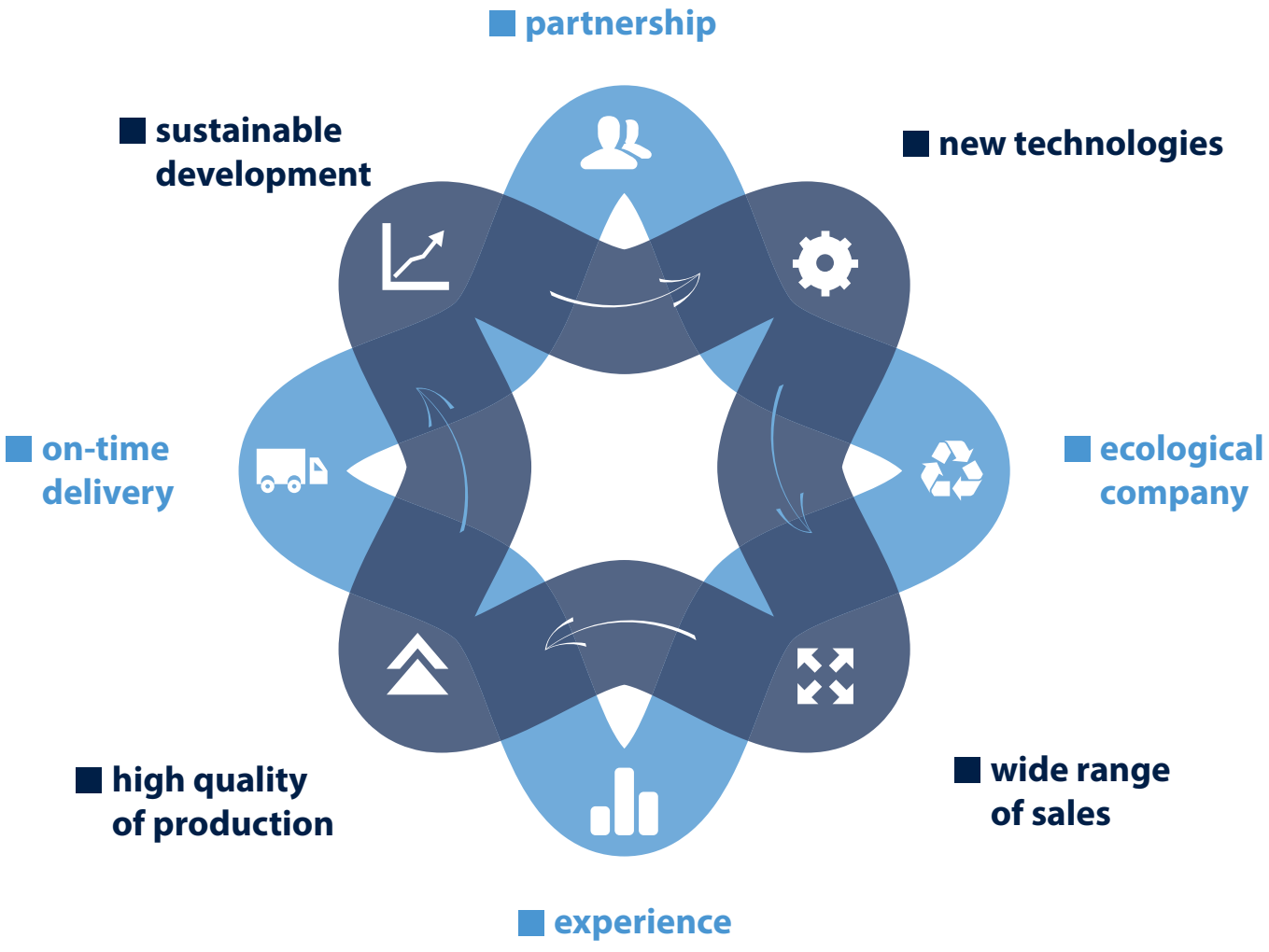
EN

Elpar CABLE FACTORY

LIST OF CONTENTS

About the company

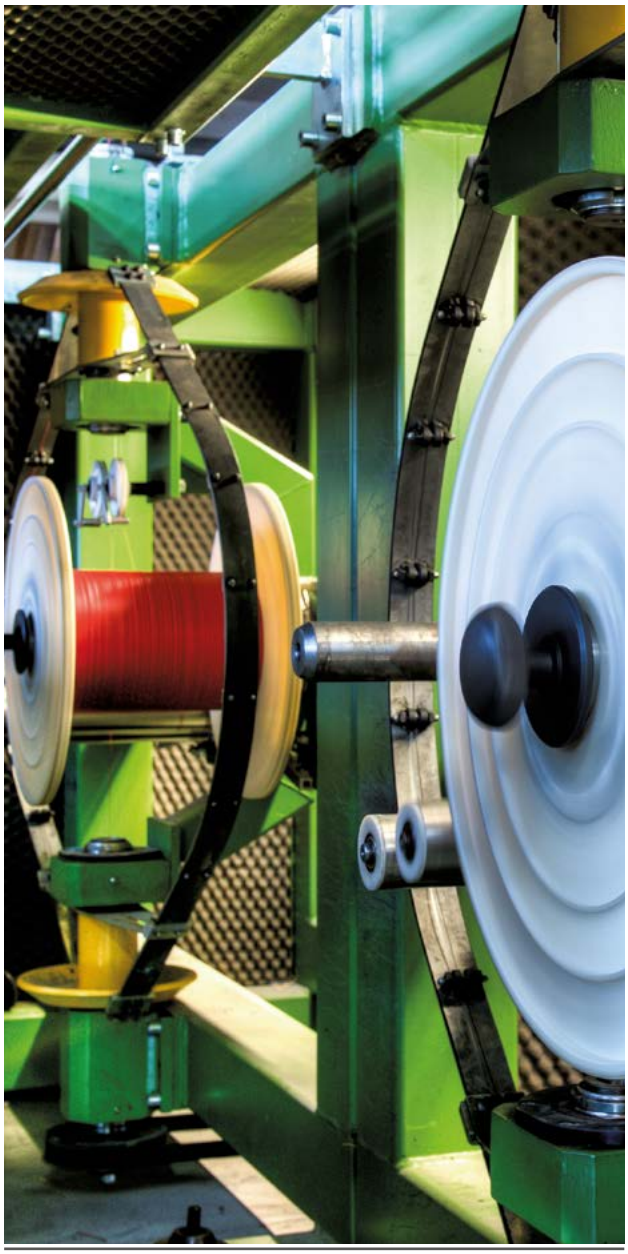
ELPAR is one of the largest manufacturers of power cables and wires in Poland, offering a wide range of low and medium voltage cables and wires. All products are characterized by high quality, confirmed by tests in notified laboratories. ELPAR is synonymous with continuous development and innovative technical solutions.



3 reasons why we are a good choice

1 over 25 years of experience and modern technologies

This is our everyday business. We keep upgrading our stock of machinery while controlling product quality in our laboratory.



2 Polish production, European and ISO standards

Aiming for the highest standards, we are not afraid to face challenges. Which is why all our plants are located in Poland and operated under the ISO 9001:2008 Quality Management System, and our cables and wires are CE certified.

3 reliability confirmed by acclaimed institutions

- Association of Polish Electrical Engineers
- EMAG Institute of Innovative Technologies
- Central Mining Institute
- State Mining Authority
- Józef Tuliszkowski Scientific and Research Centre for Fire Protection
- Railway Institute

NEW PRODUCTION LAUNCHES IN YEARS 2017-2018

1 Starting the production department of telecommunications cables:
- Local paired cables (XzTKMXpw, XzTKMXpwn, TKMXn)
- Local four – wires cables (XzTKMXpw, XzTKMXpwn, XzTKMXpwFtlx)
- Terminating cables (YTKZYekw)
- Telecommunication cables for high frequencies (YTKSX(p)ekp, Yn-YTKSX(p)ekp, Y-YTKSX(p)ekp, Y-YTKSX(p)ekp, H-YTKSX(p)ekp)

2 Staring the production of wires and cables for data comminucations:
- Computer cables UTP, FTP, S-FTP, STP, S-STP, UTPw, UTPwn, FTPw, FTPwn. UTP-PATCH CABLE, FTP-PATCH CABLE

3 Starting the production of PARBUS data transmission cables:
- E-BUS
- L2 - BUS(interior) 02YS(St)CY
- L2 - BUS(exterior) 02YS(St)C2Y

4 Starting the production of cables for data transmission:
- RD-Y(St)Y
- RD-Y(St)Yv
- RE-2Y(St)Yv-P(St)

5 Complementing the range of control cables with the following types:
- PARTRONIC LiYYo, LiYY-Nr, LiYYo-P, LiYY-P-Nr, LiHH, LiHH-P 300/300 V
- PARTRONIC LiYCYo, LiYCY-Nr, LiYCYo-P, LiYCY-P, LiHCH, LiHCH-P 300/300 V
- PARTRONIC LiY(St)Y, LiY(St)Y-Nr, LiY(St)Yo, LiH(St)H 300/300 V
- PARCONTROL YStYekwf(żo), YoStYekwf(żo), YnStYekwf(żo), YStYekwf-P, YoStYekwf-P, YnStYekwf-P 300/500 V
- PARCONTROL YStYekwo(żo), YoStYekwo(żo), YnStYekwo(żo), YStYekwo-P, YoStYekwo-P, YnStYekwo-P 300/500 V
- PARCONTROL YKSLY(żo), YcKSLY(żo), YoKSLY(żo), YnKSLY(żo), YvKSLY(żo), YKSLY-P, YcKSLY-P, YoKSLY-P, YnKSLY-P, YvKSLY-P 300/500 V
- PARCONTROL HKSLH(żo), HKSLH-P 300/500 V
- PARCONTROL YKSLYekwf(żo), YKSLYekwf-P, YcKSLYekwf, YoKSLYekwf, YnKSLYekwf 300/500 V
- PARCONTROL YKSLYekwo(żo), YcKSLYekwo(żo), YoKSLYekwo(żo), YnKSLYekwo(żo), YvKSLYekwo(żo), YKSLYekwo-P, YcKSLYekwo-P, YoKSLYekwo-P, YnKSLYekwo-P, YvKSLYekwo-P 300/500 V
- PARCONTROL HKSLHekwo(żo) 300/500 V
- PARCONTROL 500 (YLGY 300/500 V)
- PARCONTROL 500 CY (YLgY EKWO 300/500 V)
- PARCONTROL 500 PUR
- PARCONTROL 500 CPUR
- H05W5-F
- H05VVC4V5-K
- PARCONTROL 750 (YLgY(żo) 450/750 V)
- PARCONTROL 750 CY (YLgYekwo 450/750 V)
- PARCONTROL YoKSLY(żo), YcKSLY(żo), YnKSLY(żo), YvKSLY(żo), YKSLY-P, YoKSLY-P, YcKSLY-P, YnKSLY-P, YvKSLY-P 0,6/1 kV
- PARCONTROL HKSLH(żo), HKSLH-P 0,6/1 kV
- PARCONTROL YKSLYekwf(żo), YoKSLYekwf(żo), YcKSLYekwf(żo), YnKSLYekwf(żo), YvKSLYekwf(żo), YKSLYekwf-P, YoKSLYekwf-P, YcKSLYekwf-P, YnKSLYekwf-P, YvKSLYekwf-P 0,6/1 kV
- PARCONTROL HKSLHekwf(żo), HKSLHekwf-P 0,6/1 kV
- PARCONTROL YKSLYekwo(żo), YoKSLYekwo(żo), YcKSLYekwo(żo), YnKSLYekwo(żo), YvKSLYekwo(żo), YKSLYekwo-P, YoKSLYekwo-P, YcKSLYekwo-P, YnKSLYekwo-P, YvKSLYekwo-P 0,6/1 kV
- PARCONTROL HKSLHekwo(żo), HKSLHekwo-P 0,6/1 kV
- PARCONTROL 1000 (YLgY 0,6/1 kV)
- PARCONTROL 1000 CY (YLgYekw 0,6/1 kV)
- PARTRONIC IB LiYY 300/300 V
- PARTRONIC IB LiY(St)Y 300/300 V
- PARTRONIC IB LiYCY 300/300 V
- PARTRONIC IB LiYCY-P 300/300 V
- PARCONTROL IB 500
- PARCONTROL IB 500 CY
- H05VVH6-F
- H07VVH6-F
- 2YSLCY-J 0,6/1 kV
- 2YSLCYn-J 0,6/1 kV
- UV 2YSLCYK-J 0,6/1 kV
- 2YSLCH-J 0,6/1 kV
- 3plus-2YSLCY-J 0,6/1 kV
- 3plus-2YSLCYn-J 0,6/1 kV
- UV 3plus-2YSLCYK-J 0,6/1 kV
- 3plus 2YSLCH-J 0,6/1 kV
- 2XSLCY-J 0,6/1 kV
- 2XSLCYn-J 0,6/1 kV
- UV 2XSLCYK-J 0,6/1 kV
- 2XSLCH-J 0,6/1 kV
- 3plus-2XSLCY-J 0,6/1 kV
- 3plus-2XSLCYn-J 0,6/1 kV
- 3plus 2XSLCH-J 0,6/1 kV

6 Starting power cables for mobile and portable receivers:
- GsLGs 450/750 V

7 Complementing the range of high-frequency coaxial cables with types:
- XWD 75-0,59/3,7, XWDek 75-0,59/3,7, YWD 75-0,59/3,7, YWDek 75-0,59/3,7, YWL 75-0,63/3,7, XWL 75-0,63/3,7
- RG 6 (wz), RG 058 C/U (wz), RG 59; RG 59 B/U
- YAS ((p);(o))(n)75, XAS ((p);(o))(n)75

8 Starting the production of halogen-free cables 300/500 V and 0,6/1 kV:
- N2XH 0,6/1 kV, N2XCH 0,6/1 kV
- NHXMH-O(J) 300/500 V

9 Starting the production of overhead wires:
- Bare copper electrical power cables
- Bare aluminum electrical power cables
- Bare steel-aluminum electrical power cables

10 Starting the production of grooved contact wires:
- AC 100 Cu-ETP (Djp)
- AC 100 CuAg 0,1 (Djps)
- AC 150 Cu-ETP (Djp)
- AC 150 CuAg 0,1 (Djp, DjpS)

11 Starting the production of trolley wires:
- LgN-K 0,6/1 kV
- NLgN-K 1,8/3 kV
- NLgN-K 3,6/6 kV
- NLgN-K 3,6/6 kV
- GLgGc-K, GLggGc-K 750 V
- GLgGc-K, GLggGc-K 3 kV
- GLgGb-K, GLggGb-K 750 V
- GLgGb-K, GLggGb-K 3 kV
- LgY-K 750 V
- LgY-K 1,5 kV
- NSGAFÖU 0,6/1 kV, NSGAFÖU 1,8/3 kV, NSGAFÖU 3,6/6 kV

12 Starting the production of halogen-free resistant cables:
- (N)HXH-J(-O) FE 180/E30 0,6/1 kV
- (N)HXH-J(-O) FE 180/E90 0,6/1 kV
- (N)HXCH FE 180/E30 0,6/1 kV
- (N)HXCH FE 180/E90 0,6/1 kV

13 Starting the production of cables and wires for mining industry:
- Cables and wires for telecommunications
- Shot-firing cables
- Electrical power cables and wires
- Electrical power wires
- Control cables and signalling cables

CABLES AND WIRES FOR DATA COMMUNICATIONS

Local paired cables

	SYMBOL	STANDARD	NUMBER OF PAIRS	CONDUCTOR DIAMETER [mm]	APPLICATION
	XzTKMXpw	NF-EP-55:2012	(1 ÷ 9) x 2	0,50 ÷ 0,80	Cables intended for building local telecommunications networks, for installation in cable ducts or directly in the ground, in areas with low risk of mechanical damage.
	XzTKMXpwn	NF-EP-55:2012	(1 ÷ 9) x 2	0,50 ÷ 0,80	Cables intended for construction of local telecommunications network, for placing on wooden or prefabricated supports.
	TKMXn	NF-EP-55:2012	1 x 2	0,60 ÷ 1,20	Cables intended for construction of local telecommunications network, for placing on wooden or prefabricated supports.

Local four-wires cables

	SYMBOL	STANDARD	NUMBER OF QUADS	CONDUCTOR DIAMETER [mm]	APPLICATION
	XzTKMXpw	PN-92/T-90335 PN-92/T-90336 NF-EP-55:2012	(5 ÷ 250) x 4 (5 ÷ 250) x 4 (5 ÷ 200) x 4 (5 ÷ 250) x 4	0,40 0,50 0,60 0,80	Cables intended for building local telecommunications networks, for installation in cable ducts or directly in the ground, in areas with low risk of mechanical damage.
	XzTKMXpwn	PN-92/T-90335 PN-92/T-90337 NF-EP-55:2012	(5 ÷ 50) x 4 (5 ÷ 50) x 4	0,40 ÷ 0,60 0,80	Cables intended for construction of local telecommunications network, for placing on supports.
	XzTKMXpwFtlx	PN-92/T-90335 PN-92/T-90336 NF-EP-55:2012	(5 ÷ 150) x 4 (5 ÷ 150) x 4 (5 ÷ 100) x 4 (5 ÷ 50) x 4	0,40 0,50 0,60 0,80	Cables intended for construction of local telecommunications network, for placing on wooden or prefabricated supports.

Terminating cables

	SYMBOL	STANDARD	NUMBER OF QUADS	CONDUCTOR DIAMETER [mm]	APPLICATION
	YTKZYekw	PN-92/T-90320 PN-92/T-90322	(5 ÷ 50) x 4	0,50(c)	Cables intended for terminating local telecomminications lines indoors.

Telecommunication cables

	SYMBOL	STANDARD	NUMBER OF PAIRS	CONDUCTOR DIAMETER [mm]	APPLICATION
	TKSY	PN-T-90320:1992 PN-T-90321:1992	1 x 2	0,5(c); 0,6(c); 0,8(c)	Wires intended for tele-transmission connections in telephone and station devices of low frequencies and for processing information.
	YTKSY		(1 ÷ 53) x 2	0,5(c); 0,6(c); 0,8(c)	
	YTKSYekw				

Telecommunication for high frequencies

	SYMBOL	STANDARD	NUMBER OF PAIRS	CONDUCTOR DIAMETER [mm]	APPLICATION
	YTKSX(p)ekp Yn-YTKSX(p)ekp Y-YTKSX(p)ekp H-YTKSX(p)ekp	NF-EP-56:2012	2 x 2 8 x 2 12 x 2 24 x 2	0,40(c) 0,40(c) 0,40(c) 0,40(c)	Cables intended for connecting devices in telecommunications, electronic, measuring and information network installations operating at frequencies up to 1 MHz.

Telecommunication for fire-protection systems

	SYMBOL	STANDARD	NUMBER OF PAIRS	CONDUCTOR DIAMETER [mm]	APPLICATION
	YnTKSY	PN-T-90320:1992 NF-EP-17:2008	(1 ÷ 10) x 2	0,80; 1,0; 1,05	Cables intended for use in alarm devices and fire protection systems indoors.
	YnTKSYekw YnTKSXekw		(1 ÷ 10) x 2 (1 ÷ 2) x 2	0,8 1,0 ÷ 1,05	

Wires for alarm systems and interphones

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR DIAMETER OR CROSS-SECTION	APPLICATION
	YTDY YTDYekw	NF-EP-11:2008	2 ÷ 14	0,5 mm	Cables intended for use in telephony and for powering alarm devices and intercoms indoors.
					
	YTLY YTLYekw		2 ÷ 14	0,22 mm^2	
					

Patch cords / patch cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR DIAMETER [mm]	APPLICATION
	TDY TDX	PN-T-90200:1991 PN-T-90205:1991	1 ÷ 4	0,4 ÷ 1,0	Wires intended for permanent connections in telecommunications and electronic devices indoors.

Coaxial cables (concentric)

	SYMBOL	STANDARD	WAVE IMPEDANCE [Ω]	CONDUCTOR DIAMETER [mm]	APPLICATION
  	RG 6 (wz) RG 058 C/U (wz) RG 59; RG 59 B/U	NF-EP-10:2007 MIL-C-17G:1990	75 50 75	1,05 0,9 0,59	Wires intended for transmission of high frequency signals in TV antennas, computer and closed circuit television installations.
	YWDXpek 75 0,8/3,7 YWDXpek 75 1,0/4,8 YWDXpek 75 1,05/5,0 SATPAR 75 1,05/4,8	NF-EP-8:2007	75 75 75 75	0,8 1,0 1,05 1,05	Wires intended for transmission of high frequency signals in TV antennas, computer and closed circuit television installations.
	XWD 75 0,59/3,7 XWDek 75 0,59/3,7 YWD 75 0,59/3,7 YWDek 75 0,59/3,7 YWL 75 0,63/3,7 XWL 75 0,63/3,7	PN-91/T-90601	75 75 75 75 75 75	0,59 0,59 0,59 0,59 0,63 0,63	Wires intended for making TV antenna installations, subscriber cable TV installations and closed circuit television installations.

Concentric cables for closed-circuit television with conductors

	SYMBOL	STANDARD	WAVE IMPEDANCE [Ω]	CONDUCTOR DIAMETER [mm]	APPLICATION
	YAS ((p);(o))(n)75 XAS ((p);(o))(n)75	NF-EP-09:2009	75	0,8/3,7+ 2 x 0,35 ÷ 1	Cables intended for installing satellite receiving antennae and closed circuit television as well as other similar tasks that require additional power. Can be produced as self-supporting cables (n). Manufactured in construction: p - flat or o-round.

Speaker cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	TLYp TLgYp	NF-EP-20:2009	2 ÷ 4	0,5 ÷ 4	Cables intended for connections between low-frequency power amplifiers and speaker systems.

CABLES AND WIRES FOR DATA COMMUNICATIONS

Computer wires

	SYMBOL	STANDARD	NUMBER OF PAIRS	CONDUCTOR DIAMETER [mm]	APPLICATION
	PARDATA UTP PARDATA FTP PARDATA S-FTP PARDATA STP PARDATA S-STP PARDATA UTP LSOH PARDATA FTP LSOH Categories: cat. 5 - 100 MHz cat. 5e - 125 MHz cat. 6 - 250 MHz	NF-EP-57:2012	4 x 2 4 x 2	0,50 cat. 5 i cat. 5e 0,565 cat. 6	Data cables cat. 5, 5e, 6 internal, used in high-speed data transmission networks, in computer information processing systems. Intended for designing vertical and horizontal installations in ICT networks, websites as well as alarm and monitoring systems and surveillance. FTP and STP - cables with high resistance to external electromagnetic interference. S-STP and S-FTP - cables with very high resistance to external electromagnetic interference.
	PARDATA UTPw PARDATA UTPwn PARDATA FTPw PARDATA FTPwn	NF-EP-57:2012	4 x 2	0,50 cat. 5e	Data cables cat. 5e external /type LAN/. Intended for high speed data transmission networks, computer information processing systems, telecommunication and Internet networks, alarm and monitoring systems, surveillance and security. For use in ducts and directly in the ground.
	PARDATA UTP - PATCH CABLE PARDATA FTP - PATCH CABLE Categories: cat. 5 -100 MHz	NF-EP-58:2012	4 x 2	0,14 (7 x 0,16)	Data cables cat. 5 intended for internal connections to subscriber and station devices.

ELECTRICAL POWER CABLES FOR PERMANENT INSTALLATION

Single core cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	H05V-U/05V-U DY(żo) 300/500 V	PN-EN 50525-2-31 NF-EP-39:2010	1	0,5 ÷ 4,0	Non-sheathed cables for permanent wiring.
	H07V-U/07V-U DY(żo) 450/750 V			1,0 ÷ 10	
	H05V-K/05V-K LgY(żo) 300/500 V			0,35 ÷ 2,5	
	H07V-K/07V-K LgY(żo) 450/750 V			1,0 ÷ 400	
	H05V-R/05V-R LY(żo) 300/500 V			0,35 ÷ 6	
	H07V-R/07V-R LY(żo) 450/750 V			1,0 ÷ 400	
	H05V2-U/05V2-U DYc(żo) 300/500 V			0,5 ÷ 4,0	Non-sheathed cables designed for permanent installation at elevated temperatures up to 90°C.
	H07V2-U/07V2-U DYc(żo) 450/750 V			1,0 ÷ 10	
	H05V2-K/05V2-K LgYc(żo) 300/500 V			0,35 ÷ 2,5	
	H07V2-K/07V2-K LgYc(żo) 450/750 V			1,0 ÷ 400	
	H05V2-R/05V2-R LYc(żo) 300/500 V			0,35 ÷ 2,5	
	H07V2-R/07V2-R LYc(żo) 450/750 V			1,0 ÷ 400	
	LGs 300/500 V LGs 450/750 V LGs 0,6/1 kV	NF-EP-02:2006		0,5 ÷ 6,0 0,5 ÷ 300	Non-sheathed cables designed for permanent installation at temperatures up to 180°C.
	H00V-D H00V3-D	PN-EN 61138:2008		10 ÷ 300 16 ÷ 150	Cables for portable earthing and short-circuit devices used at repairs of energy devices and cable lines.

Multi-core round and flat cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	YDY(żo) 450/750 V	PN-EN 50525-1 NF-EP-66:2012	2, 3, 4, 5, 7, 10	1,0 ÷ 10	Cables in P.V.C. sheath for permanent installation – round and flat.
	CYKY 450/750 V	NF-EP-41:2010	2 3 4 5 7	1,5 ÷ 6,0 1,0 ÷ 10 1,0 ÷ 16 1,0 ÷ 16 1,0 ÷ 4	
	NYM-J(-O) 300/500V	VDE 0250-204	1 2 ÷ 5 7	1,5 ÷ 16 1,5 ÷ 35 1,5 ÷ 2,5	
	YDYp(żo) 300/500 V	PN-EN 50525-1 NF-EP-66:2012	2 ÷ 4	0,5 ÷ 6,0	
	YDYp(żo) 450/750 V		2 ÷ 5	1,0 ÷ 10	
	YDYt(żo) 300/500 V	PN-EN 50525-1 NF-EP-66:2012	2 ÷ 3	1,0 ÷ 2,5	Non-sheathed cables intended for permanent installation below the plaster.
	YDYt(żo) 450/750 V				
	(N)YM-J(-O) 300/500 V	NF-EP-01:2004	2 ÷ 5	1,5 ÷ 16	Cables intended for installation in tubes or P.V.C. cable trays.
	YDY(p) 300/500 V	ZN-EP II-01/1	2 ÷ 3	1,5 ÷ 2,5	

ELECTRICAL POWER CABLES FOR MOBILE AND PORTABLE RECEIVERS

Multi-core round and flat cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	H03VV-F/03VV-F	PN-EN 50525-2-11	2 ÷ 5	0,5 ÷ 2,5	Cables for connecting small mobile and portable receivers in domestic premises, office and workshop.
	H03VVH2-F/ 03VVH2-F		2 ÷ 3	0,5 ÷ 2,5	
	H05VV-F/05VV-F		2 ÷ 5	0,5 ÷ 16 0,75 ÷ 4,0	
	H05VVH2-F/ 05VVH2-F		2	0,5 ÷ 4 0,75 ÷ 1,5	

Multi-core round cables in silicone insulation and sheath

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	GsLGs 450/750 V GsLGs 0,6/1 V	NF-EP-05:2006	2 ÷ 5 3 ÷ 5 7, 10, 12,16, 18	0,5 ÷ 16 1 ÷ 16 1,5 ÷ 2,5	Cables with heat resistant properties and high abrasion resistance of the coating. For use in harsh industrial environments: iron mills, steel plants, cement plants, shipyards. Cable insulation is resistant to temperatures from -60°C to +180°C, briefly up to +220°C.

Multi-core round cables in rubber insulation and sheath

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	H05RR-F/05RR-F OW(żo)t 300/500 V	PN-EN 50525-2-21:2011	2 ÷ 5 3 ÷ 4	0,75 ÷ 6,0	Flexible wires for powering mobile and portable receivers in industry and agriculture.
	H05RN-F/05RN-F OnW(żo) 300/500 V		2 ÷ 4	0,75 ÷ 1,0	
	H07RN-F/07RN-F OnPd(żo) 450/750 V		1 2 3 4 5 6 ÷ 18 6 ÷ 36	1,5 ÷ 400 1 ÷ 25 1 ÷ 90 1 ÷ 70 1 ÷ 50 4 1,5; 2,5	
	H01N2-D/01N2-D OnS 1 100/100 V	PN-EN 50525-2-81:2011	1	10 ÷ 240	Welding wires in rubber insulation 100/100 V.

Multi-core round cables in rubber insulation and polyurethane sheath

	SYMBOL	STANDARD	LNUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	H05BQ-F	PN-EN 50525-2-21:2011	2 ÷ 5	0,75 ÷ 1,0	Cables for powering mobile and portable receivers exposed to coating abrasion.
	H07BQ-F/07BQ-F		2 ÷ 5 7, 10, 12, 14, 18, 24	1,0 ÷ 16 1,5 ÷ 2,5	

Multi-core round and flat cables in rubber insulation and sheath for submersible pumps

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	OGŁ 0,6/1 kV	NF-ELPAR-27:2009	3 ÷ 4	6,0 ÷ 50 2,5 ÷ 50	Cables with copper conductors, in rubber insulation and sheath, designed to power electric motors in submersible pumps working in moderate climates.
	OGŁp 0,6/1 kV				

SIGNAL CABLES AND CONTROL CABLES

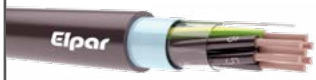
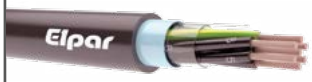
Cables for industrial electronics and automatics

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS/ PAIRS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	PARTRONIC LiYY 300/300 V LiYYo 300/300 V LiYY-Nr 300/300 V LiHH 300/300 V	NF-EP-07:2006	2 ÷ 61	0,14 ÷ 2,5	Cables for use in control systems, signalling, monitoring, computer systems, measurement technology, and for transmitting digital and analog data in industrial electronics and automation.
	PARTRONIC LiYCY 300/300 V LiYCYo 300/300 V LiYCY-Nr 300/300 V LiHCH 300/300 V		2 ÷ 61	0,14 ÷ 2,5	
	PARTRONIC LiYY-P 300/300 V LiYYo-P 300/300 V LiYY-P-Nr 300/300 V LiHH-P 300/300 V		2 ÷ 25 x 2	0,5 ÷ 1,0	
	PARTRONIC LiYCY-P 300/300 V LiYCYo-P 300/300 V LiYCY-P-Nr 300/300 V LiHCH-P 300/300 V		2 ÷ 20 x 2	0,5 ÷ 1,5	
	PARTRONIC LiY(St)Y 300/300 V LiY(St)Yo 300/300 V LiY(St)Y-Nr 300/300 V LiH(St)H 300/300 V		2 ÷ 61	0,5 ÷ 1,5 0,5 ÷ 2,5	
	PARTRONIC LiYY 300/500 V LiYYo 300/500 V LiYY-Nr 300/500 V LiHH 300/500 V	NF-EP-07:2006	2 ÷ 61	0,14 ÷ 2,5	Cables for use in control systems, signalling, monitoring, computer systems, measurement technology, and for transmitting digital and analog data in industrial electronics and automation.
	PARTRONIC LiYCY 300/500 V LiYCYo 300/500 V LiYCY-Nr 300/500 V LiHCH 300/500 V		2 ÷ 61	0,14 ÷ 2,5	
	PARTRONIC LiYY-P 300/500 V LiYYo-P 300/500 V LiYY-P-Nr 300/500 V LiHH-P 300/500 V		2 ÷ 25 x 2	0,5 ÷ 1,0	
	PARTRONIC LiYCY-P 300/500 V LiYCYo-P 300/500 V LiYCY-P-Nr 300/500 V LiHCH-P 300/500 V		2 ÷ 20 x 2	0,5 ÷ 1,5	
	PARTRONIC LiY(St)Y 300/500 V LiY(St)Yo 300/500 V LiY(St)Y-Nr 300/500 V LiH(St)H 300/500 V		2 ÷ 61	0,5 ÷ 1,5 0,5 ÷ 2,5	

PARCONTROL control cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS/ PAIRS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	PARCONTROL YStY(żo) 300/500 V	ZN-EP-03:2007	2 ÷ 60	0,5 ÷ 2,5	Cables intended for control systems, signalling, monitoring and industrial automation applications, ekwf – metallic foil shield, ekwo – copper braided shield.
	PARCONTROL YStY-P 300/500 V		2 ÷ 18 x 2	0,5 ÷ 2,5	Cables intended for use in energy control systems, protective and steering systems, for power supply, as well as in industrial installations such as production lines, air conditioning and more. Cables can be used for permanent and mobile connections in dry and damp rooms.
	PARCONTROL YStYekwf(żo) 300/500 V YoStYekwf(żo) 300/500 V YnStYekwf(żo) 300/500 V	ZN-EP-03:2007	2 ÷ 37	0,5 ÷ 1,5	Cables intended for use in energy control systems, protective and steering systems, for power supply, as well as in industrial installations such as production lines, air conditioning and more. Cables can be used for permanent and mobile connections in dry and damp rooms. Common shield protects cable against electromagnetic interference.
	PARCONTROL YStYekwo(żo) 300/500 V YoStYekwo(żo) 300/500 V YnStYekwo(żo) 300/500 V		2 ÷ 25	2,5	
	PARCONTROL YStYekwf-P 300/500 V YoStYekwf-P 300/500 V YnStYekwf-P 300/500 V		2 ÷ 24 x 2 2 ÷ 18 x 2 2 ÷ 14 x 2	0,5 0,75 1 ÷ 2,5	Control cables with PVC insulation and PVC sheath in common shield made of polyester film coated with a layer of aluminum and pairs of conductors.
	PARCONTROL YStYekwo-P 300/500 V YoStYekwo-P 300/500 V YnStYekwo-P 300/500 V		2 ÷ 24 x 2 2 ÷ 18 x 2 2 ÷ 14 x 2	0,5 0,75 1 ÷ 2,5	Control cables with PVC insulation and PVC sheath in common shield made of braided copper wiring and pairs of conductors.
	PARCONTROL YKSLY(żo) 300/500 V YcKSLY(żo) 300/500 V YoKSLY(żo) 300/500 V YnKSLY(żo) 300/500 V YvKSLY(żo) 300/500 V	NF-EP-21:2009	2 ÷ 60	0,5 ÷ 2,5	Cables designed for permanent installation in cable ducts, in industrial equipment, production lines for connecting monitoring, safety and control devices, for transmission of electricity, appropriate for moderate climates. The cables are suitable for flexing.
	PARCONTROL YKSLY-P 300/500 V YcKSLY-P 300/500 V YoKSLY-P 300/500 V YnKSLY-P 300/500 V YvKSLY-P 300/500 V		2 ÷ 24 x 2	0,5 ÷ 2,5	
	PARCONTROL HKSLH(żo) 300/500 V HKSLH-P 300/500 V	NF-EP-21:2009	2 ÷ 60 2 ÷ 24 x 2	0,5 ÷ 2,5 0,5 ÷ 2,5	Cables insulated and sheathed with halogen-free materials intended for permanent installation in cable ducts, in industrial equipment, production lines, for connecting monitoring, security and steering devices, for transmission of electricity, intended to work in moderate climate. Cables are suitable for flexing. Halogen-free cables are used where there is need for greater safety in case of fire. In case of fire, these cables do not spread fire, smoke emission is low, and the emitted gases are not corrosive.

PARCONTROL control cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	PARCONTROL YKSLYekwf(żo) 300/500 V YcKSLYekwf 300/500 V YoKSLYekwf 300/500 V YnKSLYekwf 300/500 V YvKSLYekwf 300/500 V YKSLYekwf-P 300/500 V YcKSLYekwf-P 300/500 V YoKSLYekwf-P 300/500 V YnKSLYekwf-P 300/500 V YvKSLYekwf-P 300/500 V	NF-EP-21:2009	2 ÷ 60 2 ÷ 24 x 2	0,5 ÷ 2,5 0,5 ÷ 2,5	Cables designed for permanent installation in cable ducts, in industrial equipment, production lines for connecting monitoring, safety and control devices, for transmission of electricity, appropriate for moderate climates. Common shield protects cable tracks against electromagnetic interference and prevents noise emissions outside of the cable.
	PARCONTROL HKSLHekwf(żo) 300/500 V HKSLHekwf-P 300/500 V				
	PARCONTROL YKSLYekwo(żo) 300/500 V YcKSLYekwo 300/500 V YoKSLYekwo 300/500 V YnKSLYekwo 300/500 V YvKSLYekwo(żo) 300/500 V YKSLYekwo-P 300/500 V YcKSLYekwo-P 300/500 V YoKSLYekwo-P 300/500 V YnKSLYekwo-P 300/500 V YvKSLYekwo-P 300/500 V				
	PARCONTROL HKSLHekwo(żo) 300/500 V HKSLHekwo-P 300/500 V				Cables designed for permanent installation in cable ducts, in industrial equipment, production lines for connecting monitoring, safety and control devices, for transmission of electricity, appropriate for moderate climates. Common shield protects cable tracks against electromagnetic interference and prevents noise emissions outside of the cable. Halogen-free cables are used where there is need for greater safety in case of fire. In case of fire, these cables do not spread fire, smoke emission is low, and the emitted gases are not corrosive.
	PARCONTROL 500 (YLgY(żo) 300/500 V)	NF-EP-69:2012	2 ÷ 37 2 ÷ 61 7, 10, 12, 14, 16, 18	0,5; 2,5	Flexible control leads are designed for use in energy control, monitoring and steering systems and supply of electricity, as well as in industrial applications, such as production lines, air conditioning and more. These cables can be used for permanent and mobile connections in dry and wet rooms.
	PARCONTROL 500 CY (YLgYekwo 300/500 V)		2 ÷ 37	0,5 ÷ 2,5	
	PARCONTROL 500 PUR		2 ÷ 37	0,5 ÷ 2,5	
	PARCONTROL 500 CPUR		2 ÷ 37	0,5 ÷ 2,5	
	H05VV5-F	PN-EN 50525-2-51:2011	2 ÷ 36	0,5 ÷ 2,5	Oil-resistant flexible cables intended for steering, control and measuring devices. To be used only indoors.
	H05VVC4V5-K		2 ÷ 36	0,5 ÷ 2,5	

PARCONTROL control cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	PARCONTROL 750 (YLgY 450/750 V)	NF-EP-69:2012	2 ÷ 37	0,5 ÷ 2,5	Flexible control leads designed for use in energy control, monitoring and steering systems and supply of electricity, as well as in industrial applications, such as production lines, air conditioning and more. These cables can be used for permanent and mobile connections in dry and damp rooms.
	PARCONTROL 750 CY (YLgYekwo 450/750 V)		1 2 3 4 5 6, 7, 10 12, 14 16, 18	1,5 ÷150 1,5 ÷ 95 1,5 ÷150 1,5 ÷ 240 1,5 ÷ 70 1,5 ÷ 16 1,5; 4	
	PARCONTROL YKSLY(żo) 0,6/1 kV YoKSLY(żo) 0,6/1 kV YcKSLY(żo) 0,6/1 kV YnKSLY(żo) 0,6/1 kV YvKSLY(żo) 0,6/1 kV	NF-EP-21:2009	2 ÷ 60	0,5 ÷ 2,5	Cables designed for permanent installation in cable ducts, in industrial equipment, production lines, for connection of monitoring, safety and control devices, transmission of electricity, suitable for work in moderate climate. Cables are suitable for flexing.
	PARCONTROL YKSLY-P 0,6/1 kV YoKSLY-P0,6/1 kV YcKSLY-P 0,6/1 kV YnKSLY-P 0,6/1 kV YvKSLY-P 0,6/1 kV		2 ÷ 24 x 2	0,5 ÷ 2,5	
	PARCONTROL HKSLH(żo) 0,6/1 kV HKSLH-P 0,6/1 kV		2 ÷ 60 2 ÷ 24 x 2	0,5 ÷ 2,5 0,5 ÷ 2,5	
	PARCONTROL YKSLYekwf(żo) 0,6/1 kV YoKSLYekwf 0,6/1 kV YcKSLYekwf 0,6/1 kV YnKSLYekwf 0,6/1 kV YvKSLYekwf 0,6/1 kV YKSLYekwf-P 0,6/1 kV YoKSLYekwf-P 0,6/1 kV YcKSLYekwf-P 0,6/1 kV YnKSLYekwf-P 0,6/1 kV YvKSLYekwf-P 0,6/1 kV	NF-EP-21:2009	2 ÷ 60 2 ÷ 24 x 2	0,5 ÷ 2,5 0,5 ÷ 2,5	Cables designed for permanent installation in cable ducts, in industrial equipment, production lines, for connection of monitoring, safety and control devices, transmission of electricity, suitable for work in moderate climate. Common shield protects cable tracks against electromagnetic interference and prevents noise emissions outside of the cable.
	PARCONTROL HKSLHekwf(żo) 0,6/1 kV HKSLHekwf-P 0,6/1 kV		2 ÷ 60 2 ÷ 24 x 2	0,5 ÷ 2,5 0,5 ÷ 2,5	Cables designed for permanent installation in cable ducts, in industrial equipment, production lines, for connection of monitoring, safety and control devices, transmission of electricity, suitable for work in moderate climate. Common shield protects cable tracks against electromagnetic interference and prevents noise emissions outside of the cable. Halogen-free cables are used where there is need for greater safety in case of fire. In case of fire, these cables do not spread fire, smoke emission is low, and the emitted gases are not corrosive.

PARCONTROL control cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	PARCONTROL YKSLYekwo(żo) 0,6/1 kV YoKSLYekwo 0,6/1 kV YcKSLYekwo 0,6/1 kV YnKSLYekwo 0,6/1 kV YvKSLYekwo 0,6/1 kV YKSLYekwo-P 0,6/1 kV YoKSLYekwo-P 0,6/1 kV YcKSLYekwo-P 0,6/1 kV YnKSLYekwo-P 0,6/1 kV YvKSLYekwo-P 0,6/1 kV	NF-EP-21:2009	2 ÷ 60 2 ÷ 24 x 2	0,5 ÷ 2,5	Cables designed for permanent installation in cable ducts, in industrial equipment, production lines, for connection of monitoring, safety and control devices, transmission of electricity, suitable for work in moderate climate. Common shield protects cable tracks against electromagnetic interference and prevents noise emissions outside of the cable.
	PARCONTROL HKSLHekwo(żo) 0,6/1 kV HKSLHekwo-P 0,6/1 kV		2 ÷ 60 2 ÷ 24 x 2	0,5 ÷ 2,5 0,5 ÷ 2,5	Cables designed for permanent installation in cable ducts, in industrial equipment, production lines, for connection of monitoring, safety and control devices, transmission of electricity, suitable for work in moderate climate. Common shield protects cable tracks against electromagnetic interference and prevents noise emissions outside of the cable. Halogen-free cables are used where there is need for greater safety in case of fire. In case of fire, these cables do not spread fire, smoke emission is low, and the emitted gases are not corrosive.
	PARCONTROL 1000 (YLgY 0,6/1 kV)	NF-EP-69:2012	1 2 3 4 5 7 8 ÷ 61	0,5 ÷ 400 0,5 ÷ 6,0 0,5 ÷ 120 0,5 ÷ 120 0,5 ÷ 95 0,5 ÷ 16 0,5; 2,5	Flexible control leads are designed for use in energy control, monitoring and steering systems and supply of electricity, as well as in industrial applications, such as production lines, air conditioning and more. These cables can be used for permanent and mobile connections in dry and damp rooms.
	PARCONTROL 1000 CY (YLgYekwo 0,6/1 kV)		1 2 3 4 5 7 8 ÷ 25	0,5 ÷ 240 0,5 ÷ 4,0 0,5 ÷ 120 0,5 ÷ 120 0,5 ÷ 95 0,5 ÷ 16 0,5; 2,5	

Signal cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	YKSY(żo) 0,6/1 kV YnKSY(żo) 0,6/1 kV YKSXS(żo) 0,6/1 kV YnKSXS(żo) 0,6/1 kV XnKSXS(żo) 0,6/1 kV	IEC 60502-1:2004 NF-EP-21:2009	7 ÷ 61 7 ÷ 37 7,10	1,0 ÷ 1,5 2,5 4,0 ÷ 10	Signal cables intended for energy control and steering devices as well as for transmission of energy, can be installed in ducts or directly in the ground, in places not exposed to mechanical damage.
	YKSYFtly(żo) 0,6/1 kV YKSYFt(żo) 0,6/1 kV YKSXSFtly(żo) 0,6/1 kV YKSXSFt(żo) 0,6/1 kV YKSYy 0,6/1 kV YKSYFty		7 ÷ 75 7 ÷ 37 7, 10	1,0 ÷ 1,5 2,5 4,0 ÷ 10	Signal cables armoured with steel, enameled or galvanized tapes for energy control and steering devices, as well as for transmission of electricity, suitable for placing in ducts or directly in the ground in places exposed to mechanical damage.
	YKSYektmy(żo) 0,6/1 kV YKSXSektmy(żo) 0,6/1 kV	NF-EP-18:2009	7 ÷ 75 7 ÷ 37 7, 10	1,0 ÷ 1,5 2,5 4,0 ÷ 10	Signal cables shielded with cooper tapes for energy control and steering devices.

Signal cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	NYY-J(O) 0,6/1 kV	PN-HD 627 S1:2002 PN-HD 627 S1:2002/A2:2006	7 ÷ 61 7 ÷ 19	1,5 4,0 ÷ 2,5	Signal cables intended for energy control and steering devices as well as for transmission of energy, can be installed in ducts or directly in the ground.

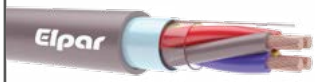
Control cables for PARTRONIC intrinsically safe systems

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	PARTRONIC IB LiYY 300/300 V	NF-EP-07:2006	2 ÷ 60	0,5 ÷ 2,5	Cables designed for use in control circuits, signalling, monitoring, measurement technology, for transmitting data analog and digital signals in industrial electronics and automation as well as in computer systems and control circuits that are prone to explosions or intrinsically safe circuits. Cables used for permanent and mobile connections inside buildings.
	PARTRONIC IB LiY(St)Y 300/300 V			0,5 ÷ 1,5	Cables designed for use in control circuits, signalling, monitoring, measurement technology, for transmitting data analog and digital signals in industrial electronics and automation as well as in computer systems and control circuits that are prone to explosions or intrinsically safe circuits. Cables used for permanent and mobile connections inside buildings.
	PARTRONIC IB LiYCY 300/300 V			0,5 ÷ 1,5	Cables designed for use in control circuits, signalling, monitoring, measurement technology, for transmitting data analog and digital signals in industrial electronics and automation as well as in computer systems and control circuits that are prone to explosions or intrinsically safe circuits. Cables used for permanent and mobile connections inside buildings. Common shield protects cable against the influence of external electromagnetic interference, and ensures proper transmission of signals.
	PARTRONIC IB LiYCY-P 300/300 V		2 ÷ 24 x 2	0,5 ÷ 1,0	
	PARCONTROL IB 500		2 ÷ 60	0,5 ÷ 2,5	Flexible control leads are designed for use in energy control, monitoring and steering systems and supply of electricity, as well as in industrial applications, such as production lines, air conditioning and more. These cables can be used for permanent and mobile connections in dry and wet rooms as well as in control circuits that are prone to explosion and intrinsically safe circuits.
	PARCONTROL IB 500 C				
	PARCONTROL IB 500 CY				
	PARCONTROL IB 500 (St)				

Cables for data transmission PARBUS

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS/ PAIRS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	E-BUS	NF-EP-59:2012	(2 ÷ 4) x 2	0,80	Cables intended for carrying BUS signals in intelligent building management systems based on EIB standards. Cables suitable for interior application, „on" and „below" the plaster, in pipes and cable ducts.
	L2 BUS Flex		1 x 2	0,64	L2-BUS cables intended for connecting L2-BUS components (according to standard RS485), for sending analog and digital signals. Suitable for usage indoors, directly in the ground and on constructions.
	L2 - BUS(interior) 02YS(St)CY L2 - BUS(exterior) 02YS(St)C2Y	NF-EP-60:2012	1 x 2	0,64	
	Li2YCY-P(St)		2 ÷ 10 x 2	0,5 ÷ 10	Cable intended for data transmission systems, suitable for sending signals in demanding environments where there is suppression and cross-talk. Cable suitable for installation indoors in dry and damp rooms.

Cables for data transmission

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS/ PAIRS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	RD-Y(St)Y RD-Y(St)Yv RD-H(St)Yv	NF-EP-60:2012	(2 ÷ 48) x 2	0,5	Cables for transmitting analog and digital signals in bands up to 10kHz. Construction of the cable ensures good cross-talk attenuation. Suitable for installation inside buildings. Cables intended for sending digital signals with speed up to 200Kbit/s. Suitable for installation inside buildings, outside on constructions and directly in the ground.
	RE-2Y(St)Yv-P(St)	NF-EP-62:2012		0,5 ÷ 1,3	

Flat control cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	H05VVH6-F	PN-EN 50214	6; 9; 12; 18; 20; 24	0,75; 1,0	Flat cables are used for electronic connections in lifting devices, elevators, hoists and in other fields of machine-building industry as well as belt conveyor systems. Suitable for use indoors in damp and dry rooms.
	H07VVH6-F		3; 6; 9; 12; 4; 5	1,5; 2,5 1,5 ÷ 25	

Frequency converter cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	2YSLCY-J 0,6/1 kV 2YSLCYn-J 0,6/1 kV	NF-EP-26:2009	4	1,5 ÷ 240	Power cables designed for supplying propulsion engines with frequency convertors. Double sheath used in the cable meets the requirements concerning the levels of radio and electromagnetic disturbances.
	UV 2YSLCYK-J 0,6/1 kV				Power cables designed for supplying propulsion engines with frequency convertors. Double sheath used in the cable meets the requirements concerning the levels of radio and electromagnetic disturbances. Cables can be laid directly in the ground.
	2YSLCH-J 0,6/1 kV				Specially designed cables are used for powering frequency converter engines and retain full electromagnetic compatibility. Cables suitable for permanent and mobile connections in industrial equipment, technological lines, machines operating in dry and damp rooms as well as in public buildings. Cable is produced entirely with halogen-free materials, does not emit harmful substances in fire conditions. The cable is not suitable for laying outside and laying directly in the ground.
	3plus-2YSLCY-J 0,6/1 kV 3plus-2YSLCYn-J 0,6/1 kV		3+3	1,5 ÷ 240 + 0,25 ÷ 50	Specially designed cables are used for powering frequency converter engines and retain full electromagnetic compatibility. Cables suitable for permanent and mobile connections in industrial equipment, technological lines, machines operating in dry and damp rooms as well as in public buildings. Cable is produced entirely with halogen-free materials, does not emit harmful substances in fire conditions. Symmetrical design of the cable (3+3PE) provides voltage symmetry at motor terminals.
	UV 3plus-2YSLCYK-J 0,6/1 kV				Specially designed cables used for powering frequency converter engines and retain full electromagnetic compatibility. Cables suitable for permanent and mobile connections in industrial equipment, technological lines, machines operating in dry and damp rooms as well as in public buildings. Symmetrical design of the cable (3+3PE) provides voltage symmetry at motor terminals. Cables can be laid directly in the ground.

Frequency converter cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	3plus 2YSLCH-J 0,6/1 kV	NF-EP-26:2009	3+3	1,5 ÷ 240 + 0,25 ÷ 50	Specially designed cables used for powering frequency converter engines and retain full electromagnetic compatibility. Cables suitable for permanent and mobile connections in industrial equipment, technological lines, machines operating in dry and damp rooms as well as in public buildings. Cable is produced entirely with halogen-free materials, does not emit harmful substances in fire conditions. Symmetrical design of the cable (3+3PE) provides voltage symmetry at motor terminals.
	2XSLCY-J 0,6/1 kV 2XSLCYn-J 0,6/1 kV		4	1,5 ÷ 240	Specially designed cables used for powering frequency converter engines. Cross-linked polyethylene (XLPE) used in cables increases their current-carrying capacity. Double sheath meets the requirements concerning the levels of radio and electromagnetic disturbances. Cables suitable for permanent and mobile connections in industrial equipment, technological lines, machines operating in dry and damp rooms as well as in public buildings. Cables can be laid directly in the ground.
	UV 2XSLCYK-J 0,6/1 kV	NF-EP-26:2009			Specially designed cables used for powering frequency converter engines. Cross-linked polyethylene (XLPE) used in cables increases their current-carrying capacity. Double sheath meets the requirements concerning the levels of radio and electromagnetic disturbances. Cables suitable for permanent and mobile connections in industrial equipment, technological lines, machines operating in dry and damp rooms as well as in public buildings. Cables can be laid directly in the ground.

Frequency converter cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	2XSLCH-J 0,6/1 kV	NF-EP-26:2009	4	1,5 ÷ 240	Specially designed cables used for powering frequency converter engines and retain full electromagnetic compatibility. Cables suitable for permanent and mobile connections in industrial equipment, technological lines, machines operating in dry and damp rooms as well as in public buildings. Cable is produced entirely with halogen-free materials, does not emit harmful substances in fire conditions. Cable is not suitable for laying outside and directly in the ground.
	3plus-2XSLCY-J 0,6/1 kV 3plus-2XSLCYn-J 0,6/1 kV		3+3	1,5 ÷ 240 + 0,25 ÷ 50	Specially designed cables used for powering frequency converter engines and retain full electromagnetic compatibility. Cross-linked polyethylene (XLPE) used in cables increases their current-carrying capacity. Cables suitable for permanent and mobile connections in industrial equipment, technological lines, machines operating in dry and damp rooms as well as in public buildings. Symmetrical design of the cable (3+3PE) provides voltage symmetry at motor terminals.
	3plus-2XSLCH-J 0,6/1 kV				Specially designed cables used for powering frequency converter engines and retain full electromagnetic compatibility. Cables suitable for permanent and mobile connections in industrial equipment, technological lines, machines operating in dry and damp rooms as well as in public buildings. Cable is produced entirely with halogen-free materials, does not emit harmful substances in fire conditions. Symmetrical design of the cable (3+3PE) provides voltage symmetry at motor terminals.

ELECTRICAL POWER CABLES AND WIRES UP TO 1 KV

Electrical power cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	YKY(żo) 0,6/1 kV YnKY(żo) 0,6/1 kV YKXS(żo) 0,6/1 kV YnKXS 0,6/1 kV XnKXS 0,6/1 kV YKYFty(żo) 0,6/1 kV YKXSFty(żo) 0,6/1 kV	IEC 60502-1:2004 PN-HD 603 S1:2002 PN-93/E-90401	1 2 3 4 5	1,0 ÷ 1000 1,0 ÷ 35 1,0 ÷ 240 1,0 ÷ 240 1,0 ÷ 150	Cables - unarmoured or armoured with steel galvanized or lacquered tape, intended for transmitting high and low electrical power in areas exposed to mechanical damage, for installation directly in the ground or in cable ducts.
	YKYektmy(żo) 0,6/1 kV YKSXektmy(żo) 0,6/1 kV	IEC 60502-1:2004 NF-EP-19:2009			Cables shielded with cooper tapes for transmitting high and low electrical power in areas exposed to interference.
	YAKY(żo) 0,6/1 kV YAKXS(żo) 0,6/1 kV YAKYFty(żo) 0,6/1 kV YAKXSFty(żo) 0,6/1 kV	IEC 60502-1:2004 PN-HD 603 S1:2002 PN-93/E-90401	1 2 3 4 5	10 ÷ 1000 10 ÷ 35 10 ÷ 240 10 ÷ 240 10 ÷ 150	Cables - unarmoured or armoured with steel galvanized or lacquered tape, intended for transmitting high and low electrical power in areas exposed to mechanical damage, for installation directly in the ground or in cable ducts.
	NYY-J(O) 0,6/1 kV	PN-HD 603 S1:2002	1 2 3 3+1 4 5	1,5 ÷ 500 1,5 ÷ 35 1,5 ÷ 240 25/16 ÷ 300/150 1,5 ÷ 240 1,5 ÷ 150	Cables intended for transmitting high and low electrical power, for installation directly in the ground or in cable ducts.
	NAYY-J(O) 0,6/1 kV		1 3 ÷ 4 5	10 ÷ 630 10 ÷ 240 10 ÷ 150	
	1-AYKY-J(O)	IEC 60502-1:2004 NF-EP-15:2008			Cables intended for transmitting high and low electrical power, for installation directly in the ground or in cable ducts.

Cables for overhead lines

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	ASXSn 0,6/1 kV	PN-HD 626 S1:2002 NF-EP-03:2008	1 2 4	25 ÷ 70 16 ÷ 35 16 ÷ 120	Self-supporting wires with aluminum conductors for the construction of low voltage overhead lines in urban areas, forests and as connection for individual consumers and industrial facilities.
			5	4 x (25 ÷ 120) 1 x (16 ÷ 35)	
			6	4 x (25 ÷ 120) 2 x (16 ÷ 35)	
	1-AYKYz-J(O)	NF-EP-15:2008	4	10 ÷ 35	Mounted wires with aluminum conductors, for the construction of low voltage overhead lines.

BARE ELECTRICAL POWER CABLES

Bare electrical power cables for overhead lines

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	AFL 6	PN-74/E 90083 (PN-IEC 1089, PN-EN 50182)	1	16 ÷ 300	Steel and aluminum power cables designed for overhead power lines.
	AFL 8			350; 400; 525; 675	
	AFL 1,7	PN-74/E-90080 PN-74/E 90083 (PN-IEC 1089, PN-EN 50182)		38 50 70 95	
	AL	PN-74/E 90082 (PN-IEC 1089, PN-EN 50182)		16 ÷ 300	Copper power cables designed for overhead power lines.
	L	PN-74/E-90081		16 ÷ 300	
	L	NF-EP-47:2011		10	Copper power cables designed to support overhead contact lines.

TROLLEY WIRES

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	AC Cu 100 (Djp) AC CuAg 0,1 (DjpS)	PN-E-90090:1996 PN-EN 50149:2012	1	100 100; 150	Cables designed for overhead contact lines.

RAILWAY CABLES

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	LgN-K 0,6/1 kV	NF-EP-31:2010 PN-K-02511:2000	1	0,75 ÷ 240	Cables for installation in rail rolling stock, including in areas exposed to weather conditions and greases.
	NLgN-K 1,8/3 kV			1,5 ÷ 240	
	NLgN-K 3,6/6 kV				
	NLgNek-K 3,6/6 kV				
	GLgGc-K 750 V GLggGc 750 V	NF-EP-67:2012 PN-K-02511:2000 PN-E-90120:1968			Cables for flexible connections in rail vehicles, or between them, where conditions require frequent bending and are exposed to atmospheric conditions and greases.
	GLgGc-K 3 kV GLggGc 3 kV				
	GLgGb-K 750 V GLggGb-K 750 V	PN-E-90121:1968 PN-E-90120:1968 PN-K-02511:2000			
	GLgGb-K 3 kV GLggGb-K 3 kV				
	LgY-K 750 V	PN-E-90116:1988 PN-E-90115:1988 PN-K-02511:2000			Cables for permanent wiring including in areas exposed to grease.
	LgY-K 1,5 kV				
	NSGAFÖU 0,6/1 kV	DIN-VDE 250-602		1,5 ÷ 400	Cables for flexible connections in rail vehicles, or between them, where conditions require frequent bending and are exposed to atmospheric conditions and greases.
	NSGAFÖU 1,8/3 kV			1,5 ÷ 400	
	NSGAFÖU 3,6/6 kV			1,5 ÷ 400	

SAFETY CABLES AND WIRES

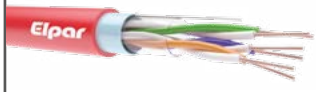
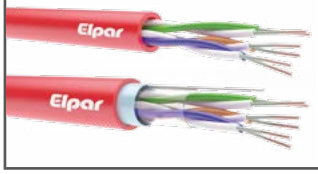
Halogen-free fire-resistant signal cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	HDGs(żo) FE 180/PH90 300/500 V HDGsekwf(żo) FE 180/PH90 300/500 V HLGs(żo) FE 180/PH90 300/500 V HLGsekwf(żo) FE 180/PH90 300/500 V	NF-EP-02:2007	2 ÷ 5 6 ÷ 37	1,0 ÷ 4,0 1,0 ÷ 2,5	Fire-resistant, halogen-free cables with single and multi-wire conductors that can retain PH functions up to 90 minutes. Used for control in alarm systems, fire protection systems, sound warning systems, emergency lighting. For indoor use. Require installation on surface and fixtures with fire resistance class, at least 90 minutes.

Halogen-free fire-resistant cables for energy transmission

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	NKGs(żo) PH90 0,6/1 kV	NF-EP-04:2007	1 ÷ 5 6 ÷ 61	1,5 ÷ 35 1,5 ÷ 25	Fire-resistant, halogen-free cables with single and multi-wire conductors that can retain PH functions up to 90 minutes. Used for powering buildings with risk of fire. For use indoors. Require installation on surface and fixtures with fire resistance class, at least 90 minutes.
	(N)HXH FE 180/E30 0,6/1 kV (N)HXH FE 180/E90 0,6/1 kV	NF-EP-73:2013	2 3 ÷ 4 5 6 ÷ 48 6 ÷19	1,5 ÷ 35 1,5 ÷ 240 1,5 ÷ 120 1,5 ÷ 2,5 4,0	Fire resistant, halogen-free power cable powering receivers in buildings with stringent fire protection requirements. Tested together with cable accessories (trough, ladders, brackets) according to DIN 4102-12. Has classification of maintaining function E30 (30 min.) or E90 (90 min.).
	(N)HXCH FE 180/E30 0,6/1 kV (N)HXCH FE 180/E90 0,6/1 kV	NF-EP-74:2013	2 3; 4 6 ÷ 37 6 ÷ 19	1,5/1,5 ÷ 25/16 1,5/1,5 ÷ 240/120 1,5/2,5 ÷ 2,5/10 4/4 ÷ 10	

Halogen-free fire-resistant telecommunications cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS/ PAIRS	CONDUCTOR DIAMETER [mm]	APPLICATION
	HTKSHceramik FE 180/PH90 240 V HTKSHceramik ekwf FE 180/PH90 240 V	NF-EP-14:2008	(1 ÷ 10) x 2	0,8 ÷ 2,8	Fire-resistant telecommunications cables that can retain PH functions up to 90 minutes. Used for alarm system wiring, fire protection systems, sound warning systems and other signal circuits that require preserving properties for 90 minutes. For indoor use. Require installation on surface and fixtures with fire resistance class, at least 90 minutes.
	HTKSHmika FE 180/PH90 240 V HTKSHmika ekwf FE 180/PH90 240 V				

Halogen-free fire-resistant telecommunications cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS/ PAIRS	CONDUCTOR DIAMETER [mm]	APPLICATION
	JE-H(St)H FE 180/E30 JE-H(St)H FE 180/E90	DIN VDE 0815	1 ÷ 52	0,8 ÷ 1,0	Halogen-free, fire resistant telecommunications cables used for alarm system wiring and in fire protection systems. Possess fire resistance (together with accessories) up to 30 minutes (E30) or 90 minutes (E90). For indoor use only, in buildings with stringent fire protection requirements. Fire tests according to DIN VDE 4102 part 12 standard.

HALOGEN-FREE CABLES

Halogen-free cables for energy transmission

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	N2XH-O(J) 0,6/1 kV	DIN VDE 0276-604	1 2 3 ÷ 4 5 7 ÷ 40 7 ÷ 19	1,5 ÷ 500 1,5 ÷ 150 1,5 ÷ 240 1,5 ÷ 150 1,5; 2,5 4	Halogen-free cables for energy transmission with cross-linked polyethylene insulation and halogen-free sheath that prevents flame propagation. Limited release of smoke and corrosive gases during combustion.
	N2XCH-O(J) 0,6/1 kV		2 ÷ 4 7 ÷ 40 7 ÷ 19	1,5 ÷ 240 1,5; 2,5 4	
	NHXMH-O(J) 300/500 V	DIN VDE 0250-214	1 2 ÷ 5 7	1,5 ÷ 16 1,5 ÷ 35 1,5; 2,5	

SPECIAL CAR WIRES

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	YLgY-S(p) 24 V	NF-EP-16:2009	2	1,0 ÷ 1,5	Car wires with multi-core copper conductors with polyvinyl chloride insulation and sheath, rectangular, for P&R systems (Press and Ready).
	YLY-S 24 V	NF-EP-13:2009	2 ÷ 7	0,5 ÷ 2,5	Flexible car wires with polyvinyl chloride insulation and sheath, multi-core, suitable for rated voltage up to 24 V, used for connecting car trailers.

CABLES AND WIRES FOR MINING INDUSTRY

Telecommunications cables

	SYMBOL	STANDARD	NUMBER OF PAIRS	CONDUCTOR DIAMETER [mm]	APPLICATION
	YnTKGX	NF-EP-51:2011	2 ÷ 200 x 2	0,8	Cables used in telecommunication networks, in open pit, borehole and underground mines, in methane and non-methane areas, areas classified as "a", "b" or "c" degree of methane explosion danger, and "A" or "B" class of coal dust explosion danger, as well as outside the areas of explosion danger, in intrinsically safe circuits.
	YTKGX(Ft, Ftl, Fo)yn				
	YnHTKGX	NF-EP-52:2011	1 ÷ 56 x 2	0,6; 0,8; 1,2	
	SYMBOL	**STANDARD**	**NUMBER OF PAIRS**	**CONDUCTOR CROSS-SECTION [mm²]**	
	Yn(H)TKGMFLY	NF-EP-53:2011	1 x 4 5 x 2 10 x 2	0,5 0,8	
	YnTKGMFLYkon				
	YTKGMFLYkonyn				

Shot-firing cable

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION OR DIAMETER	APPLICATION
	SY	NF-EP-43:2010	1	1,2 mm	Wires used in blasting works as protective conductors for connecting circuits of electric detonators with blasting lines and for installing permanent and suspended blasting lines in mines.
	SDY		1	0,60 mm 0,75 mm	Wires used in blasting works as protective conductors for connecting circuits of electric detonators with blasting lines in mines, in methane and non-methane fields of all categories of explosion danger.
	YnDYp-G 450/750 V		2	1,0 ÷ 10 mm²	Wires used in blasting works including permanent or portable blasting lines in methane and non-methane fields of all categories of explosion danger.
	PSY		2	1,5 mm²	

Electrical power cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	YnDY-G 450/750 V	NF-EP-42:2010	2 ÷ 4	1,0 ÷ 10	Cables for permanent wiring in mining, for powering electrical devices except for underground workings in mines.
	YnDYp-G 450/750 V				
	YnLY-G 0,6/1 kV		2 3 ÷ 4 5 ÷ 10	1 ÷ 35 1,0 ÷ 150 1,0 ÷ 10	
	YnOGY 0,6/1 kV	NF-EP-25:2010	3 x (2,5 ÷ 95) + (2,5 ÷ 25) 3 x 120 + (25 ÷ 50) 3 x (2,5 ÷ 10) + (2,5 ÷ 10) + (2,5 ÷ 6,0)		Wires for powering portable and manual devices or machines and devices due to vibrations and shock, on deck in danger of collapse, underground mines, non-methane fields, in workings class A of coal dust explosion danger, open pit and borehole mines and outside areas of explosion danger.
	YnOGYekm 0,6/1 kV		3 x (2,5 ÷ 25) + (2,5 ÷ 16) + (2,5 ÷ 16) 3 x (16 ÷ 120) + (16 ÷ 50) + 3 x (1,5 ÷ 4,0)		Wires for powering portable and manual devices or machines and devices due to vibrations and shock, on deck in danger of collapse, underground mines, non-methane and methane fields, areas classified as "a", "b" or "c" degree of methane explosion danger, and "A" or "B" class of coal dust explosion danger, open pit and borehole mines as well as outside the areas of explosion danger.
	YnOGYek 0,6/1 kV		3 x (2,5 ÷ 10) + (2,5 ÷ 10) + (2,5 ÷ 6,0)		
	H07RN-F 450/750 V	PN-EN 50525-2-21:2011	1 x 1,5 ÷ 240 2 x 1,0 ÷ 25 2 x (1,0 ÷ 35) + (1,0 ÷ 35) 3 x (1,0 ÷ 35) + (1,0 ÷ 35) 3 x (1,0 ÷ 25) + (1,0 ÷ 25) + (1,0 ÷ 25)		Wires used in open pit and borehole mines, outside areas of explosion danger and underground mines except methane fields.
	OnG single-wire 0,6/1 kV	PN-89/E-90142	1 x 4,0 ÷ 185		Wires used as supply voltage, reinforcing and return lines in underground electric traction, for powering induction mining lamps and for connecting lamps in crosscuts with electric traction slide rail.
	OnG multi-wire 0,6/1 kV	PN-89/E-90143	3 x (2,5 ÷ 10) + (2,5 ÷ 10) 3 x (2,5 ÷ 4,0) + (2,5 ÷ 4,0) + (2,5 ÷ 4,0)		Wires used in open pit and borehole mines, outside areas of explosion danger and underground mines except methane fields.
	OnG1 0,6/1 kV		2 x 1,5 ÷ 2,5 3 x 1,5 + 1,5 3 x (2,5 ÷ 6,0) + (2,5 ÷ 6,0) + (2,5 ÷ 4,0)		Wires used in open pit and borehole mines, outside areas of explosion danger and underground mines except methane fields.
	OnGc-G 0,6/1 kV	NF-EP-32:2010	3 x (16 ÷ 120) + (10 ÷ 35) * 3 x (6,0 ÷ 50) + (6,0 ÷ 25) + (6,0 ÷ 50) 3 x (16 ÷ 120) + (10 ÷ 35) + 3 x (2,5 ÷ 4,0)		Wires used in open pit and borehole mines, outside areas of explosion danger and underground mines except methane fields.

*) protective conductor can be made of three components of 10 mm² cross-section each

Electrical power cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	OnGcekżi-G 0,6/1 kV	NF-EP-35:2010	2 x (1,0 ÷ 4,0) + (1,0 ÷ 4,0) 3 x (1,0 ÷ 4,0) + (1,0 ÷ 4,0) 3 x (1,0 ÷ 4,0) + (1,0 ÷ 4,0) + (1,0 ÷ 4,0) 3 x (1,0 ÷ 4,0) + (1,0 ÷ 4,0) + 2 x (1,0 ÷ 4,0) 3 x (1,0 ÷ 4,0) + (1,0 ÷ 4,0) + 3 x (1,0 ÷ 4,0) 3 x (1,0 ÷ 4,0) + (1,0 ÷ 4,0) + 4 x (1,0 ÷ 4,0) 3 x (1,0 ÷ 4,0) + (1,0 ÷ 4,0) + 6 x (1,0 ÷ 4,0) 3 x (1,0 ÷ 4,0) + (1,0 ÷ 4,0) + 8 x (1,0 ÷ 4,0)	Wires used for powering devices working in underground mines, on methane fields and outside those fields, areas classified as “a”, “b” or “c” degree of methane explosion danger, and “A” or “B” class of coal dust explosion danger.
	OnGcekż-G 0,6/1 kV	NF-EP-37:2010	3 x 16 + 10 + 3 x 1,5 3 x 25 + 16 + 3 x 2,5 3 x 35 + 16 + 3 x 2,5 or 6 x 2,5 3 x 50 + 25 + 3 x 4,0 or 6 x 2,5 3 x 70 + 35 + 3 x 4,0 or 6 x 2,5 or 6 x 4,0 3 x 95 + 35 + 3 x 4,0 or 6 x 4,0 3 x 120 + 50 + 6 x 4,0	Wires installed in electrical networks in underground mines with rated voltage 1 kV or 1140 V, in methane and non-methane fields, areas classified as “a”, “b” or “c” degree of methane explosion danger, and “A” or “B” class of coal dust explosion danger.
	OnGcekż-GW 0,6/1 kV			
	OnGcekż-G2 0,6/1 kV	NF-EP-36:2010	3 x 35 + 3 x 25 ÷ 35 + 16 ÷ 25 + 3 x 4,0 3 x 50 + 3 x 16 ÷ 50 + 25 + 3 x 4,0 3 x 70 + 3 x 16 ÷ 70 + 25 + 3 x 4,0 3 x 95 + 3 x 95 + 25 + 3 x 4,0 3 x 35 + 3 x 25 ÷ 35 + 16 + 6 x 2,5 3 x 50 + 3 x 16 ÷ 50 + 25 + 6 x 2,5 3 x 70 + 3 x 16 ÷ 70 + 25 + 6 x 2,5 ÷ 4,0 3 x 95 + 3 x 95 + 25 + 7 x 4,0	Indoor shielded mine wires with double conductor strands with rubber insulation and sheath for rated voltage 0,6/1 kV. Wires installed in electrical networks in underground mines with rated voltage no exceeding 1 kV, in non-methane and methane fields, in workings classified as “a”, “b” or “c” degree of methane explosion danger, and “A” or “B” class of coal dust explosion danger.
	O2nGcekż-G2 0,6/1 kV			
	OnG-Szn 0,6/1 kV	PN-89/E-90141 PN-89/E-90140	2 x 6,0 + 2 x 14 2 x 6,0 + 2 x 22 2 x 6,0 + 2 x 25 2 x 10 + 2 x 22 2 x 10 + 2 x 25	Wires for powering installations while sinking mine shafts.
	H07BQ-F	PN-EN 50525-2-21	2 x 1,5 ÷ 4,0 3; 4; 5 x 1,5 ÷ 16 7; 10; 12; 18; 24 x 15 ÷ 2,5	Cables used for power mobile and portable receivers, working in difficult environmental conditions (exposure to abrasion, bending, dragging, variable temperature) indoors and outdoors, for example in open-pit mines, in areas where wires require high mechanical resistance.
	OGŁ 0,6/1 kV	NF-EP-27:2009	3; 4 x 2,5 ÷ 50	Electrical wires with copper conductors with rubber insulation and sheath for rated voltage 0,6/1 kV for powering electrical engines in submarine pumps working in moderate climate.
	OGL 100/100 V	NF-EP-75:2013	2; 4 x 0,5 ÷ 1,0	Wires for connecting mine caplights.

Signal cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS/ PAIRS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	YnKGS(Y, X) 300/500 V or 0,6/1 kV	NF-EP-34:2010	2 ÷ 75	0,75 ÷ 4,0	Control cables used in monitoring, safety and control devices, in open pit, borehole and underground mines, in methane and non-methane areas, areas classified as "a", "b" or "c" degree of methane explosion danger, and "A" or "B" class of coal dust explosion danger, as well as outside the areas of explosion danger, in intrinsically safe circuits.
	YnKGSL(Y, X) 150/250 V or 300/500 V or 0,6/1 kV				
	YnHKGS(Y, X) 300/500 V or 0,6/1 kV YnHKGSL(Y, X) 150/250 V or 300/500 V or 0,6/1 kV				
	YnKGS(Y, X)kon 300/500 V or 0,6/1 kV YnKGSL(Y, X)kon 150/250 V or 300/500 V or 0,6/1 kV				
	YnHKGS(Y, X)kon 300/500 V or 0,6/1 kV YnHKGSL(Y, X)kon 150/250 V or 300/500 V or 0,6/1 kV				
	YKGS(Y, X)konyn 300/500 V or 0,6/1 kV YKGSL(Y, X)konyn 150/250 V or 300/500 V or 0,6/1 kV				
	YnStY-G(żo) 150 V; 300/500 V or 0,6/1 kV YnStY eko 150 V; 300/500 V or 0,6/1 kV YnStYekżi-G(żo) 150/250V; 300/500 V or 0,6/1 kV	NF-EP-54:2012	2 ÷ 75	0,5 ÷ 4,0	Flexible control cables with multi-core copper conductors and polyvinyl chloride insulation and sheath, flame retardant, unshielded and shielded, used in permanent and flexible connections of electrical machines and devices in mines, on the surface and in underground workings.
	YKGS(L)(Y, X)(eko, ekt) yn 300/500 V or 0,6/1 kV	NF-EP-34:2010	2 ÷ 75	0,75 ÷ 40	Control cables for energy monitoring, security and control devices. In open pit, borehole and underground mines, methane and non-methane fields, areas classified as "a", "b" or "c" degree of methane explosion danger, and "A" or "B" class of coal dust explosion danger, as well as outside the areas of explosion danger, in intrinsically safe circuits.
	YKGS(Y, X)(Ftl, FtZn, Fo, Fp)yn 300/500 V or 0,6/1 kV				
	YHKGS(Y, X)(Ftl, FtZn, Fo, Fp)yn 300/500 V or 0,6/1 kV				

Power cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	YnKGY(żo) 0,6/1 kV	NF-EP-33:2010	2 ÷ 4	1,5 ÷ 10	Cables used power devices in mines as well as in power networks with rated voltage of 0,6/1 kV, in underground mines. Used in non-methane fields, areas classified as A class of coal dust explosion danger, as well as outside areas of explosion hazard, in borehole and open pit mines.
	YKGY(Fo)yn(żo) 0,6/1 kV		2 ÷ 4	1,5 ÷ 10	

Power cables

	SYMBOL	STANDARD	NUMBER OF CONDUCTORS	CONDUCTOR CROSS-SECTION [mm²]	APPLICATION
	YKGYyn 0,6/1 kV	NF-EP-33:2010	2 ÷ 4	1,5 ÷ 10	Cables used power devices in mines as well as in power networks with rated voltage of 0,6/1 kV, in underground mines. Used in non-methane fields, areas classified as A class of coal dust explosion danger, as well as outside areas of explosion hazard, in borehole and open pit mines.
	YKGY(FtZn, Ft, Ftl, Fo, Fp)yn 0,6/1 kV		3 3	10 ÷ 240 6 ÷ 70	
	YHKGYyn 0,6/1 kV	NF-EP-52:2011	3	10 ÷ 240 6 ÷ 70	Cables used power devices in mines as well as in power networks with rated voltage of 0,6/1 kV, in underground mines. Used in non-methane and methane fields, areas classified as "a", "b" or "c" degree of methane explosion danger, and "A" or "B" class of coal dust explosion danger, as well as outside areas of explosion danger, in borehole and open pit mines.
	YHKGY(FtZn, Ft, Ftl, Fo, Fp)yn 0,6/1 kV				
	YHKGYekyn 0,6/1 kV				
	YHKGYek(FtZn, Ft, Ftl, Fo, Fp)yn 0,6/1 kV				
	YHKGXSyn 0,6/1 kV				
	YHKGXS(FtZn, Ft, Ftl, Fo, Fp)yn 0,6/1 kV				
	YHKGXSekyn 0,6/1 kV				
	YHKGXSek(FtZn, Ft, Ftl, Fo, Fp)yn 0,6/1 kV				
	YKGY(FtZn, Ft, Ftl, Fo, Fp)yn 3,6/6 kV	NF-EP-44:2011	3	25 ÷ 240 16 ÷ 70	Cables used in power devices in mines as well as in power networks with rated voltage of 3,6/6 kV, in underground mines. Used in non-methane fields, in areas not classified as B degree of coal dust explosion danger, as well as outside of areas with explosion hazard, in open pit and borehole mines.
	YHKGYyn 3,6/6 kV				Cables used in power devices in mines as well as in power networks with rated voltage of 3,6/6 kV, in underground mines. Used in non-methane and methane areas, areas classified as "a", "b" or "c" degree of methane explosion danger, and "A" or "B" class of coal dust explosion danger, as well as outside areas of explosion danger, in borehole and open pit mines.
	YHKGY(Ft, FtZn, Ftl, Fo, Fp)yn 3,6/6 kV				
	YHKGYekyn 3,6/6 kV				
	YHKGYek(Ft, FtZn, Ftl, Fo, Fp)yn 3,6/6 kV				
	YHKGXS(Ft, FtZn, Ftl, Fo, Fp)yn 3,6/6 kV	NF-EP-65:2011			
	YHKGXSekyn 3,6/6 kV				
	YHKGXSek(Ft, FtZn, Ftl, Fo, Fp)yn 3,6/6 kV				

REPLACEMENT CABLES AND WIRES

Single core cables

H05V-U	DY(żo) 300/500 V
H07V-U	DY(żo) 450/750 V
H05V-K	LgY(żo) 300/500 V
H07V-K	LgY(żo) 450/750 V
H05V2-K	LgYc(żo) 300/500 V
H07V2-K	LgYc(żo) 450/750 V
H05V-R	LY(żo) 300/500 V
H07V-R	LY(żo) 450/750 V
LGs 300/500 V	SIF, SIFLEX
LGs 450/750 V	SIF, SIFLEX
DGs 300/500 V	SIFLEXSID
GsLGs 300/500 V	SIHF, SIFLEX SIF

Multi-core cables

H03VV-F	OMY 300/300 V
H03VVH2-F	OMYp 300/300 V
H05VV-F	OWY(żo) 300/500 V
H05WH2-F	OWYp 300/500 V

Multi-wire cables in rubber insulation and sheath

H07RN-F	OnPd
H05RN-F	OnW
H01N2-D	OnS-1

Cables for industrial electronics and automatics

PARTRONIC LiYY	TRONIC (LIYY)
PARTRONIC LiYY-P	PAAR-TRONIC
PARTRONIC LiYCY	UNITRONIC LIYCY
PARTRONIC LiYCY-P	PAAR-TRONIC CY

Control cables

YStY(żo) 300/500 V	JZ-500
YStYekwo(żo) 300/500 V	LiY-CY
PARCONTROL YoStY(żo) 300/500 V	H05VV5-F
PARCONTROL YoStYekwo(żo) 300/500 V	H05VVC4Y5-F

Power and signalling cables

YKSLY(żo) 0,6/1 kV	JZ-600
YKSLYekwo(żo) 0,6/1 kV	JZ-600-Y-CY
YKY(żo) 0,6/1 kV	NYY-J/NYY-O
YKSY(żo) 0,6/1 kV	NYY-J/NYY-O

Halogen-free and fire resistant cables

(N)HXH 0,6/1 kV FE 180/E30-90	NHXH 0,6/1 kV FE 180/E30-90
(N)HXCH 0,6/1 kV FE 180/E30-90	NHXCH 0,6/1 kV FE 180/E30-90

Control cables

ELPAR	OTHER PRODUCERS				
YstY(żo)-Nr	JZ-500/OZ-500	ÖLFLEX CLASSIC 110	LiYY-Nr(żo) 300/500 V	YstY(żo)-Nr	YstY(żo)-Nr
YKSLY(żo)-Nr	JZ-600/OZ-600	ÖLFLEX CLASSIC 110 Black	LiYY-Nr(żo) 0,6/1 kV	YKSLY(żo)-Nr	YSLY
YKSLYekwo(żo)-Nr	JZ-600Y-CY/OZ-600-Y-CY	ÖLFLEX CLASSIC 110 CY Black	LiYCY-Nr(żo) 0,6/1 kV	YKSLYekwo(żo)-Nr	
	JB-500/JB-750	ÖLFLEX CLASSIC 100	LiYY(żo)	BIT 750 YLgY	
H05VV5-F	H05VV5-F	H0VVV5-F (ÖLFLEX 140)	YSLY-Nr-O	H05VV5-F	H05VV5-F
H05VVC4V5-K	H05VVC4V5-K	H05VVC4V5-K (ÖLFLEX 140 CY)	YSLCY-Nr-O	H05VVC4V5-K	H05VVC4V5-K
PARTRONIC LiYY	TRONIC (LiYY)	UNITRONIC LiYY	LiYY	LiYY	LiYY
PARTRONIC LiYCY	TRONIC-CY (LiYCY)	UNITRONIC LiYCY	LiYCY	LiYCY	LiYCY
PARCONTROL YstYekwo(żo)-Nr	F-CY-JZ/F-CY-OZ	ÖLFLEX CLASSIC 115 CY	LiYCY(żo)-Nr	YstYekwo(żo)-Nr	
PARTRONIC LiYY-P	PAAR-TRONIC	UNITRONIC LiYY (TP)	LiYY-P	LiYY-P	
PARTRONIC LiYCY-P	PAAR-TRONIC-CY	UNITRONIC LiYCY (TP)	LiYCY-P	LiYCY-P	
PARCONTROL YstYekwo(żo)-P	PAAR-CY-OZ		LiYCY-P	YstYekwo(żo)-P	
PARCONTROL YstYekwo(żo)	Y-CY-JZ	ÖLFLEX CLASSIC 110 CY		YstYekwo(żo)	
PARCONTROL YstYekwo(żo)-Nr	F-CY-JZ/F-CY-OZ	ÖLFLEX CLASSIC 115 CY	LiYCY(żo)-Nr	YstYekwo(żo)-Nr	YStYekwo(żo)
	H07BQ-F	H07NBQ-F			
	OZ-BL	ÖLFLEX EB	IB-YSLY	IB-LiYY	
	OZ-BL-CY	ÖLFLEX EB CY	IB-YSLYCY-P	IB-LiYCY	

DESCRIPTION OF THE CABLES ACCORDING TO HARMONIZED STANDARDS

Diagram of markings on harmonized cables according to PN-HD 361 S3:2002 „Classification of wires and cables”

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Relation to standardisation system	Rated voltage	Insulation	Inner layer	Shield	Outer layer	Special elements	Cable shape		Conductor material		Type of conductor	Numer of conductors	Marking on protective conductor	Conductor cross-section* (mm^2)

H harmonized cable
A cable according to national standard

01 100/100 V<U_o/U < 300/300 V
03 300/300 V
05 300/500 V
07 450/750 V

⇒⇒

B Heat-resistant rubber (90°C)
G Copolimer (EVA) ethylene/vinyl acetate
J Fiber glass over-wrap
M Inorganic material
N Polychloroprene
N2 Special polychloroprene
N4 Chlorosulphonated or chlorinated polyethylene
N8 Waterproof polychloroprene
Q Polyurethane
Q4 Polyamide
R Rubber (60°C)
S Silicone rubber
T (T6) Fiber over-wrap on conductor
V Common polyvinyl chloride
V2 Heat-resistant polyvinyl chloride (90°C)
V3 Frost proof polyvinyl chloride
V4 Cross-linked polyvinyl chloride
V5 Oil-resistant polyvinyl chloride
Z Cross-linked polyethylene
Z1 Thermoplastic polyethylene

C4 Copper element on conductor
C Copper coaxial conductor

Identical as inner layer

D3 Central bearing element
D5 Non-bearing element in crane cables

no marking Round cable
H Flat- tearable
H2 Flat – non-tearable
H6 Flat three or four-core
H7 With double insulation
H8 Extendible wire

no marking Copper
A Aluminum

-

D Flexible, according to PN-HD 22,6
E Very flexible, according to PN-HD 22,6
F Flexible for wires, class 5
H Very flexible for wires, class 6
K Flexible for fixed installation
R Rigid multi-core
U Rigid round multi-core
Y Conductor string

Number of conductors according to standard

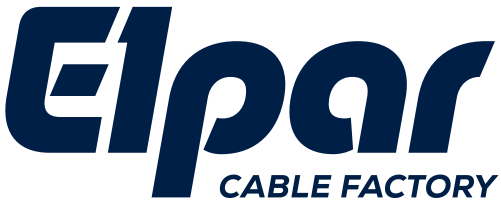
G with grounding conductor
X without grounding conductor

green-yellow

according to standard

* Notice: Letter **N** placed after conductor cross-section means that conductors are marked by numbers.

(Numbers in the first line indicate sequence of symbols in the marking).
This diagram is for information purposes only and does not substitute for the standard.



Fabryka Kabli ELPAR Sp. z o.o.

ul. Laskowska 1
21-200 Parczew
+ 48 83 355 03 38
+ 48 83 355 18 88
info@elpar.pl

ul. Szafirowa 9
16-400 Suwałki
+ 48 87 565 41 30
+ 48 87 565 41 50
suwalki@elpar.pl