ПРИВРЕДНО ДРУШТВО ЗА ГЕОЛОШКА ИСТРАЖИВАЊА
И ПРОЈЕКТОВАЊЕ
„ГЕОРАД“ д.о.о. – ДРМНО
Цара Лазара бб; 12208 Дрмн
Дрмно, 01.11.2018. године

На основу члана 66 Правилника о уређивању набавки у ПД Георад доо, Дрмно, Наручилац а у вези набавке бр. Н 185/2018 **“Каблови“** на захтев заинтересованог лица, даје

ДОДАТНЕ ИНФОРМАЦИЈЕ ИЛИ ПОЈАШЊЕЊА У ВЕЗИ СА ПРИПРЕМАЊЕМ ПОНУДЕ бр. 4

Дана 07.11.2018. год примљено је питање заинтересованог лица за набавку бр. 185/2018. те Наручилац даје следеће информације, односно појашњења:

1. **Питање**
   На поз. бр. 4: Да ли уместо траженог кабла можемо да понудимо један од два кабла чије карактеристике смо Вам послали са овим питањем и означили их са кабл 1 и кабл 2?

Одговор: Оба кабла која су понуђена не одговарају јер се тражи 6кV кабл а понуђени су каблови 0,6/1кV.

Комисија за Н 185/2018

Prysmian Group

PRYSMIAN Draka

PROTOMONT NSSHOEU 0,6/1 kV

Application

For flexible use and fixed installation open-cast mining applications, in quarries, on construction sites and similar applications, with heavy mechanical stresses. The cables can be used indoors as well as outdoors, in explosion-hazard areas, in industry and in agriculture. They can be used permanently in waste water up to 40°C at a depth of max. 2000 m and in industrial water, cooling water, surface water, rainwater and mixed water - and in groundwater and seawater to a more limited extent. The requirements for accessibility and inspection depend on the consistency of the water.In aggressive water or composed of special substances, the cable's resistance properties should be tested. In other respects the specifications of DIN VDE 0298 part 3 applies.

Global data

Brand	PROTOMONT
Type designation	NSSHOEU
Standard	DIN VDE 0250-812
Certifications / Approvals	MA – China MSHA P-189-3 Fire Certificate of Russian Federation TR-Certificate GOST K GOST B

Notes on installation

Notes on installation	Maximum submersing depth 2000 meters

Design features

Conductor	Copper, tinned, finely stranded (class 5) in accordance with DIN EN 60228 / IEC 60228
Insulation	PROTOLON, Basic material: EPR, Compound type: 3GI3 in accordance with DIN EN 50363
Core identification	Up to 5 cores: colored in gray, black, brown, blue, green/yellow from 6 cores: light gray with black digits
Core arrangement	Three main conductors laid-up together with the protective-earth conductor, from 50 mm² with protective-earth conductor split into three in the outer interstices
Inner sheath	Vulcanized rubber compound, Basic material: EPR, Compound type: GM1B in accordance with DIN EN 50363 (not for single-core cables)
Outer sheath	Vulcanized rubber compound, synthetic elastomer compound e.g. CPE, Compound: 5GM5 in accordance with DIN EN 50363, Color: Yellow

Electrical parameters

Rated voltage	0.6/1 kV (600/1000V)
Max. permissible operating voltage AC	0.7/1.2 kV
Max. permissible operating voltage DC	0.9/1.8 kV
AC test voltage - main cores	3 kV (5 Min.)
AC test voltage	3 kV
Duration of AC test voltage	5 min.

Chemical parameters

Reaction to fire	DIN EN 60332-1-2
Resistance to oil	DIN EN 60811-404
Weather resistance	Unrestricted use outdoors and indoors, resistant to ozone and moisture
Water resistance	DIN EN 50525-2-21

Thermal parameters

Max. permissible temperature at conductor	90 °C
Max. short circuit temperature of the conductor	250 °C
Max. permissible water temperature	40 °C (At higher water temperatures, a shortened cable service life is to be expected)
Ambient temperature for fix installation min.	-40 °C
Ambient temperature for fixed installation	min -40 °C ; max +80 °C
Ambient temperature for fix installation max.	80 °C
Ambient temperature in fully flexible operation	min -25 °C ; max +60 °C
Ambient temp. in fully flex. operation min.	-25 °C
Ambient temp. in fully flex. operation max.	60 °C

Prysmian Kabel und Systeme GmbH
Austraße 99 96465 Neustadt b. Coburg
phone.: +49 30 3675 40
email: kontakt@prysmiangroup.com

Technical data, dimensions and weights are subject to change.
© Prysmian Group, Germany 2015
www.prysmiangroup.com

Prysmian Group

PRYSMIAN Draka

PROTOMONT NSSHOEU 0,6/1 kV

Mechanical parameters	
Max. tensile load of cable	15 N/mm²
Torsional stress +/-	100 °/m
Min. bending radius	Acc. to DIN VDE 0298 part 3

Prysmian Kabel und Systeme GmbH
Austraße 99 96465 Neustadt b. Coburg
phone.: +49 30 3675 40
email: kontakt@prysmiangroup.com

Technical data, dimensions and weights are subject to change.
© Prysmian Group, Germany 2015
www.prysmiangroup.com

Prysmian Group

PRYSMIAN Draka

Number of cores x cross section	Part number	Conductor diameter max. mm	Outer diameter min. mm	Outer diameter max. mm	Bending radius fixed min. mm	Bending radius free moving min. mm	Net weight approx. kg/km	Permissible tensile force max. N	Conductor resistance at 20°C max. Ω/km	Nominal operating capacitance µF/km	Inductance nom. mH/km	Current carrying capacity (1) A	Short Circuit Current (conductor) kA
PROTOMONT NSSHÖU-O 1x...													
1x16	20004811	5.4	10.6	11.6			235	240	1.21	0.42	0.26	103	2.29
1x25	20008654	6.3	12.8	14	56	70	355	375	0.7839	0.42	0.26	137	3.58
1x35	20004812	7.4	13.9	15.1	60	76	450	525	0.554	0.49	0.25	169	5.01
1x50	20004813	8.8	15.6	17.1	68	86	610	750	0.386	0.51	0.25	211	7.15
1x70	20004814	10.6	17.7	19.2	77	96	825	1050	0.272	0.59	0.24	261	10.01
1x95	20004815	12.1	19.7	21.2	85	106	1050	1425	0.206	0.6	0.24	314	13.59
1x120	20004816	14.3	22.4	23.9	96	120	1360	1800	0.161	0.69	0.23	367	17.16
1x150	20004817	15.9	24.4	25.9	104	130	1640	2250	0.129	0.69	0.23	422	21.45
1x185	20069571	17.5	27.2	29.4	118	147	2040	2775	0.106	0.68	0.23	481	26.46
1x240	20004818	20.3	30.4	32.6	130	163	2600	3600	0.0801	0.73	0.23	571	34.32
1x300	20004819	23.1	34.6	36.8	147	184	3270	4500	0.0641	0.76	0.23	681	42.9
1x400	20154805	26.2	38.5	40.5			4210	6000	0.0486	0.76	0.24	828	57.2
PROTOMONT NSSHÖU-O 2x...													
2x1,5	20004826	1.6	10.6	12.2	49	61	160	45	13.3	0.22	0.33	23	0.21
2x2,5	20008593	1.9	11.7	13.3	53	67	205	75	7.98	0.23	0.32	30	0.36
2x4		2.4	14.5	16.5	66	83	295	120	4.95	0.26	0.31	41	0.57
PROTOMONT NSSHÖU-O 3x...													
3x1,5		1.6	11.1	12.7	51	64	180	68	13.3	0.22	0.33	23	0.21
3x2,5	20004872	1.9	12.2	13.8	55	69	230	113	7.98	0.23	0.32	30	0.36
3x4		2.4	14.7	16.7	67	84	340	180	4.95	0.26	0.31	41	0.57
3x6		2.9	15.7	17.7	71	89	415	270	3.3	0.3	0.29	53	0.86
3x10	20141441	3.9	20	21.1	89	112	650	450	1.91	0.32	0.28	74	1.43
3x16		5.4	23.1	25.1	100	126	890	720	1.21	0.42	0.26	99	2.29
3x25	20004897	6.3	26.8	28.5	116	146	1300	1125	0.784	0.42	0.26	131	3.58
3x35	20004837	7.5	29.9	32.9	132	165	1730	1575	0.554	0.49	0.25	162	5.01
3x50	20148227	8.9	35.2	38.3			2400	2250	0.386	0.55	0.27	202	7.15
3x70	20008777	10.6	39.1	42.1			3820	3150	0.272	0.57	0.28	250	10.01
PROTOMONT NSSHÖU-J 3x...													
3x1,5	20004827	1.6	11.1	12.7	51	64	180	68	13.3	0.22	0.33	23	0.21
3x2,5	20004828	1.9	12.2	13.8	55	69	230	113	7.98	0.23	0.32	30	0.36
3x4	20007174	2.4	15.2	17.2	69	86	340	180	4.95	0.26	0.31	41	0.57
3x6		2.9	16.6	18.6	74	93	415	270	3.3	0.3	0.29	53	0.86
PROTOMONT NSSHÖU-O 4x...													
4x1,5	20085843	1.6	12	13.1			210	90	13.3	0.22	0.33	23	0.21
PROTOMONT NSSHÖU-J 4x...													
4x1,5	20004838	1.6	11.8	13.4	54	67	210	90	13.3	0.22	0.33	23	0.21
4x2,5	20004839	1.9	14.1	16.1	64	81	310	150	7.98	0.23	0.32	30	0.36
4x4	20004840	2.4	15.7	17.7	71	89	410	240	4.95	0.26	0.31	41	0.57
4x6	20004841	2.9	16.9	18.9	76	95	500	360	3.3	0.3	0.29	53	0.86
4x10	20004842	3.9	21.1	23.1	92	116	800	600	1.91	0.32	0.28	74	1.43
4x16	20004843	5.4	25.9	27.6	113	141	1160	960	1.21	0.42	0.26	99	2.29
4x16+4x2,5	20004871	5.4	27.1	30.1			1433	960	1.21	0.42	0.26	99	2.29
4x25	20004844	6.3	29.8	32.8	131	164	1700	1500	0.7839	0.42	0.26	131	3.58

Prysmian Kabel und Systeme GmbH
Austraße 99 96465 Neustadt b. Coburg
phone.: +49 30 3675 40
email: kontakt@prysmiangroup.com

Technical data, dimensions and weights are subject to change.
© Prysmian Group, Germany 2015
www.prysmiangroup.com

Number of cores x cross section	Part number	Conductor diameter max. mm	Outer diameter min. mm	Outer diameter max. mm	Bending radius fixed min. mm	Bending radius free moving min. mm	Net weight approx. kg/km	Permissible tensile force max. N	Conductor resistance at 20°C max. Ω/km	Nominal operating capacitance µF/km	Inductance nom. mH/km	Current carrying capacity (1) A	Short Circuit Current (conductor) kA
4x25+1x(4x1,5)ST	20210185	6.3	32.4	35.4			2000	1500	0.784	0.42	0.26	131	3.58
4x35	20004845	7.5	32.7	35.7	143	179	2150	2100	0.554	0.49	0.25	162	5.01
4x50	20004846	8.8	38.1	41.1	164	206	2980	3000	0.386	0.51	0.25	202	7.15
4x70	20004847	10.6	42.1	45.1	180	226	3910	4200	0.272	0.59	0.24	250	10.01
4x95	20004848	12.1	48.2	52.2	209	261	5120	5700	0.206	0.6	0.24	301	13.59
4x120	20016763	14.2	54.6	58.6	234	293	6570	7200	0.161	0.69	0.23	352	17.16
4x150	20023637	16.1	60.8	64.8	259	324	7990	9000	0.129	0.7	0.23	404	21.45
4x185	20007494	17.9	67.3	71.3	285	357	9820	11100	0.106	0.71	0.23	461	26.46
4x240	20060343	20.3	73.7	77.7	311	389	12100	14400	0.0801	0.73	0.23	547	34.32
PROTOMONT NSSHÖU-J 3x.../...													
3x50/25	20004863	8.8	38.4	41.4	166	207	2820	2250	0.386	0.51	0.25	202	7.15
3x70/35	20004864	10.6	42.3	45.3	181	227	3670	3150	0.272	0.59	0.24	250	10.01
3x95/50	20004865	12.1	48.1	52.1	208	261	4840	4275	0.206	0.6	0.24	301	13.59
3x120/70	20004866	14.2	54.6	58.6	234	293	6250	5400	0.161	0.69	0.23	352	17.16
3x150/70	20004868	16.1	60	64	256	320	7500	6750	0.129	0.7	0.23	404	21.45
3x185/95	20004867	17.9	67.3	71.3	285	357	9290	8325	0.106	0.71	0.23	461	26.46
3x240/120	20196331	20.2	73	77			11000	10800	0.08	0.73	0.23	547	34.32
PROTOMONT NSSHÖU-J 3x... +3x.../3													
3x185+3x95/3		17.9	60.7	64.7	259	324	8690	8325	0.106	0.71	0.23	461	26.46
PROTOMONT NSSHÖU-J 5x...													
5x1,5	20004855	1.6	12.7	14.3	57	72	245	113	13.3	0.22	0.33	23	0.21
5x2,5	20004856	1.9	15.2	17.2	69	86	360	188	7.98	0.23	0.32	30	0.36
5x4	20004857	2.4	17	19	76	95	475	300	4.95	0.26	0.31	41	0.57
5x6	20004858	2.9	19.1	21.1	84	106	625	450	3.3	0.3	0.29	53	0.86
5x10	20004859	3.9	23	25	100	125	955	750	1.91	0.32	0.28	74	1.43
5x16	20004860	5.4	27.4	30.4	122	152	1380	1200	1.21	0.42	0.26	99	2.29
5x25	20004861	6.3	32.4	35.4	142	177	2030	1875	0.7839	0.42	0.26	131	3.58
5x35	20006970	7.5	36.9	39.9	160	200	2700	2625	0.554	0.49	0.25	162	5.01
5x70	20024963	10.6	47	51			5000	5250	0.272	0.57	0.24	202	7.15
5x95	20023910	12.1	53.4	57.4			6325	7125	0.206	0.65	0.24	250	10.01
5x120	20023647	14.1	59.6	63.6			7980	9000	0.161	0.68	0.24	352	17.16
5x185	20211472	17.8	74.6	78.7			12010	13875	0.106	0.71	0.23	461	26.46
5x240	20062184	20.2	79.9	84.9			15160	18000	0.08	0.73	0.23	547	34.32
PROTOMONT NSSHÖU-J ...x1,5													
7x1,5	20004891	1.6	15.2	17.2	69	86	365	158	13.3	0.22	0.33	15	0.21
8x1,5	20004890	1.6	16.6	18.6	74	93	410	180	13.3	0.22	0.33	14	0.21
10x1,5	20004886	1.6	17.7	19.7	79	99	455	225	13.3	0.22	0.33	13	0.21
12x1,5	20023911	1.6	17.7	18.3			540	270	20.3	0.22	0.33	13	0.21
7x10+5x1,5ST	20004896	3.9	26	29			1420	1050	1.91	0.33	0.28	28	1.43
19x1,5	20023912	1.6	17.7	21.7			760	428	23.7	0.22	0.33	13	0.21
24x1,5	20088402	1.6	24.3	27.3	109	137	920	540	13.3	0.22	0.33	9	0.21
PROTOMONT NSSHÖU-J ...x2,5													
7x2,5	20004887	1.9	17.4	19.4	78	97	485	263	7.98	0.24	0.32	19	0.36
10x2,5	20174408	2	20.4	21.4	92	115	630	375	7.98	0.24	0.32	16	0.36

Prysmian Kabel und Systeme GmbH
Austraße 99 96465 Neustadt b. Coburg
phone.: +49 30 3675 40
email: kontakt@prysmiangroup.com

Technical data, dimensions and weights are subject to change.
© Prysmian Group, Germany 2015
www.prysmiangroup.com

Number of cores x cross section	Part number	Conductor diameter max. mm	Outer diameter min. mm	Outer diameter max. mm	Bending radius fixed min. mm	Bending radius free moving min. mm	Net weight approx. kg/km	Permissible tensile force max. N	Conductor resistance at 20°C max. Ω/km	Nominal operating capacitance µF/km	Inductance nom. mH/km	Current carrying capacity (1) A	Short Circuit Current (conductor) kA
12x2,5	20004874	1.9	21.2	23.2	93	116	725	450	7.98	0.24	0.32	16	0.36
18x2,5	20004892	1.9	24.5	27.5	110	138	1035	675	7.98	0.24	0.32	13	0.36
19x2,5	20025547	2	26	28			1100	713	7.98	0.24	0.32	13	0.36
24x2,5		1.9	28.3	31.3	125	157	1320	900	7.98	0.23	0.32	12	0.36
PROTOMONT NSSHÖU-J ...x4													
7x4	20059552	2.4	20.5	22.5	90	113	685	420	4.95	0.26	0.31	17	0.57
12x4	20040505	2.4	25.6	28.6	114	143	1030	720	4.95	0.26	0.31	21	0.57
PROTOMONT NSSHÖU-J ...x10													
7x4+5x1,5ST	20004893	2.4	24.1	26.1			901	420	4.95	0.26	0.31	17	0.57

(1) Nominal current carrying capacity for multicore cable or three single-core cables in trefoil in permanent operation with DC or AC with 50 up to 60 Hz at 30°C ambient temperature, free in air, three cores loaded. (see also VDE 0298-4)

Prysmian Kabel und Systeme GmbH
Austraße 99 96465 Neustadt b. Coburg
phone.: +49 30 3675 40
email: kontakt@prysmiangroup.com

Technical data, dimensions and weights are subject to change.
© Prysmian Group, Germany 2015
www.prysmiangroup.com

Prysmian Group

PRYSMIAN Draka

PROTOMONT (M) (N)SHOEU 0.6/1kV: Flexible Rubber Cables

Application

Rubber-sheated flexible cables for open-cast mining, suitable for laying alongside conveyor belts (also for shiftable units) and on material handling equipment, even when the cable is moved continuously, e.g. in cable suspension fittings and as connection between upper and lower cars. The cables are also suitable for connection of submersible pump units.

Global data

Brand	PROTOMONT(M)
Type designation	(N)SHOEU
Standard	Based on DIN VDE 0250 part 812
Certifications / Approvals	Fire Certificate of Russian Federation TR-Zertifikat GOST K GOST B

Notes on installation

Notes on installation	Maximum submersing depth 500 meters

Design features

Conductor	Electrolytic copper, not tinned, finely stranded (class 5)
Insulation	PROTOLON, Basic material: EPR, Compound type: Special compound better 3GI3
Core identification	Light gray with black digits
Core arrangement	Three main conductors laid-up together with the protective-earth conductor, from 50 mm² with protective-earth conductor split into three in the outer interstices
Inner sheath	Basic material: EPR, Compound type: Special compound
Outer sheath	Basic material: Chlorinated rubber, Compound type: Special compound, 5GM3, Color: Black
KON types olny	In case of concentric screen: closed layer of copper wire spinning over core assembly

Electrical parameters

Rated voltage	Uo/U=450/750 V (Control cables); Uo/U=0.6/1 kV (Power cables)
Max. permissible operating voltage AC	0.7/1.2 kV
Max. permissible operating voltage DC	0.9/1.8 kV
AC test voltage	3 kV
AC test voltage - Control Cores	2 kV

Chemical parameters

Behaviour to fire	EN 60332-1-2; IEC 60332-1-2
Resistance to oil	EN 60811-404, IEC 60811-404
Weather resistance	Unrestricted use outdoors and indoors, resistant to ozone and moisture
Water resistance	EN 50525-2-21

Thermal parameters

Max. permissible temperature at conductor	90 °C
Max. short circuit temperature of the conductor	250 °C
Max. permissible water temperature	40 °C (At higher water temperatures, a shortened cable service life is to be expected)
Ambient temperature for fix installation min.	-40 °C
Ambient temperature for fix installation max.	80 °C
Ambient temp. in fully flex. operation min.	-25 °C
Ambient temp. in fully flex. operation max.	60 °C

Mechanical parameters

Max. tensile load on the conductor	15 N/mm²
Torsional stress +/-	100 °/m
Min. bending radius	Acc. to DIN VDE 0298 part 3
Travel speed	Max. speed on rewinding with drum car: 100 m/min

Prysmian Kabel und Systeme GmbH
Alt Moabit 91D, 10559 Berlin
phone: +49 30 3675 40
email: kontakt@prysmiangroup.com

Technical data, dimensions and weights are subject to change.
© Prysmian Group, Germany 2014
www.prysmiangroup.com

Number of cores x cross section	Part number	Conductor diameter max. mm	Outer diameter min. mm	Outer diameter max. mm	Net weight approx. kg/km	Permissible tensile force max. N	Conductor resistance at 20°C max. Ω/km	Nominal operating capacitance µF/km	Inductance nom. mH/km	Current carrying capacity (1) A	Short Circuit Current (conductor) kA
12x2,5	20004926	2	17.3	19.3	561	450	7.98	0.24	0.32	30	0.31
PROTOMONT(M) (N)SHOEU-O											
1x16		5.2	9.5	11.1	230	240	1.21	0.44	0.26	99	1.95
1x25		6.4	11	12.6	335	375	0.78	0.45	0.26	131	3.05
1x35		7.5	12.3	13.9	435	525	0.554	0.52	0.25	162	4.27
1x50		9	14.5	16.5	615	750	0.386	0.54	0.25	202	6.1
1x70	20096562	11.1	16.4	18.4	812	1050	0.272	0.61	0.24	250	8.54
1x95	20004920	12.8	18.5	20.5	1060	1425	0.206	0.64	0.24	301	11.59
1x120	20008751	14.5	20.4	22.4	1300	1800	0.161	0.72	0.23	352	14.64
1x150	20064454	16.5	22.8	24.8	1600	2250	0.129	0.72	0.23	404	18.3
1x185		17.9	24.7	27.7	2020	2775	0.106	0.71	0.23	461	22.57
1x185		17.9	24.7	27.7	2020	2775	0.106	0.71	0.23	461	22.57
1x240	20004922	21.2	27.6	30.6	2548	3600	0.08	0.76	0.23	547	29.28
1x300		23.6	31.6	34.6	3200	4500	0.0641	0.78	0.23	633	36.6
PROTOMONT(M) (N)SHOEU-O											
2x1,5	20206657	1.6	9.8	11.4	145	45	13.3	0.21	0.33	23	0.18
2x2,5	20206658	2	10.7	12.3	185	75	7.98	0.24	0.32	30	0.31
2x4		2.4	11.9	13.5	220	120	4.95	0.27	0.3	41	0.49
PROTOMONT(M) (N)SHOEU-O											
3x2,5	20004953	2	11.1	12.7	213	113	7.98	0.24	0.32	30	0.31
3x4	20004954	2.4	12.1	13.7	271	180	4.95	0.27	0.3	41	0.49
3x6	20004955	2.9	13.2	14.8	347	270	3.3	0.32	0.29	53	0.73
3x10	20004956	3.9	16.1	18.1	505	450	1.91	0.34	0.28	74	1.22
3x16	20004957	5.2	19	21	775	720	1.12	0.44	0.26	99	1.95
3x25	20004958	6.4	22.9	24.9	1160	1125	0.78	0.45	0.26	131	3.05
3x35	20004959	7.5	24.9	27.9	1500	1575	0.554	0.52	0.25	162	4.27
3x50	20004960	9	29.4	32.4	2190	2250	0.386	0.54	0.25	202	6.1
3x70	20004961	11.1	34.8	37.8	2930	3150	0.272	0.61	0.24	250	8.54
3x95	20004962	12.8	40.9	43.9	3720	4275	0.206	0.64	0.24	301	11.59
3x120	20004963	14.4	44.7	47.7	4850	5400	0.161	0.72	0.23	352	14.64
3x150	20004964	16.1	50	54	6130	6750	0.129	0.72	0.23	404	18.3
3x185	20004937	17.9	54.6	58.6	7290	8325	0.106	0.95	0.22	461	22.57
PROTOMONT (M) (N)SHOEU-J											
3x1,5	20004939	1.6	10.2	11.8	160	68	13.3	0.21	0.33	23	0.18
3x2,5	20004940	2	11.1	12.7	200	113	7.98	0.24	0.32	30	0.31
3x4	20040377	2.4	12.1	13.7	270	180	4.95	0.27	0.31	41	0.49
3x6	20004941	2.9	13.2	14.8	340	270	3.3	0.32	0.29	53	0.73
PROTOMONT(M) (N)SHOEU-J											
4x1,5		1.6	11	12.6	204	90	13.3	0.21	0.33	23	0.18
4x2,5	20004921	2	12	13.6	245	150	7.98	0.24	0.32	30	0.31
4x4	20004943	2.4	13	14.6	338	240	4.95	0.27	0.3	41	0.49
4x6	20004944	2.9	14.9	16.9	453	360	3.3	0.32	0.29	53	0.73
4x10	20004945	3.9	17.4	19.4	663	600	1.91	0.34	0.28	74	1.22
4x16	20004946	5.2	21.4	23.4	1020	960	1.12	0.44	0.26	99	1.95
4x25	20004947	6.4	24.5	27.5	1480	1500	0.78	0.45	0.26	131	3.05

Prysmian Kabel und Systeme GmbH
Alt Moabit 91D, 10559 Berlin
phone: +49 30 3675 40
email: kontakt@prysmiangroup.com

Technical data, dimensions and weights are subject to change.
© Prysmian Group, Germany 2014
www.prysmiangroup.com

Number of cores x cross section	Part number	Conductor diameter max. mm	Outer diameter min. mm	Outer diameter max. mm	Net weight approx. kg/km	Permissible tensile force max. N	Conductor resistance at 20°C max. Ω/km	Nominal operating capacitance µF/km	Inductance nom. mH/km	Current carrying capacity (1) A	Short Circuit Current (conductor) kA
4x35	20004948	7.5	28.4	31.4	1880	2100	0.554	0.52	0.25	162	4.27
4x50	20004949	9	33.6	36.6	2570	3000	0.386	0.54	0.25	202	6.1
4x70	20004950	10.6	39.5	42.5	3820	4200	0.272	0.61	0.24	250	8.45
4x95	20004938	12.8	44.8	47.8	4920	5700	0.206	0.64	0.24	301	11.59
4x120	20004942	14.4	49.9	53.9	6300	7200	0.161	0.72	0.23	352	14.64
4x150	20004967	16.1	54.9	58.9	7578	9000	0.129	0.72	0.23	404	18.3
PROTOMONT(M) (N)SHOEU-J											
3x50+3x25/3	20007826	9	29.4	32.4	2320	2250	0.386	0.54	0.25	202	6.1
3x70+3x35/3	20041925	10.6	34.8	37.8	3200	3150	0.272	0.61	0.24	250	8.54
3x95+3x50/3	20006972	12.8	40.9	43.9	4270	4275	0.206	0.64	0.24	301	11.59
3x120+3x70/3	20006971	14.4	44.7	47.7	5350	5400	0.161	0.72	0.23	352	14.64
3x150+3x70/3	20213009	16.5	50.8	54.8	6930	6750	0.129	0.72	0.23	404	18.3
3x185+3x95/3	20007432	17.9	54.5	58.5	8150	8325	0.106	0.71	0.23	461	22.57
3x240+3x120/3	20042549	20.6	62.2	66.2	10200	10800	0.08	0.76	0.23	540	26.56
3x300+3x150/3		23.4	70.3	74.3	13250	13500	0.064	0.78	0.23	633	29.28
PROTOMONT(M) (N)SHOEU-J											
5x1,5	20040380	1.6	11.9	13.5	245	113	13.3	0.21	0.33	23	0.18
5x2,5	20004951	2	12.9	14.5	297	188	7.98	0.24	0.32	30	0.31
5x4	20040379	2.4	14.7	16.7	414	300	4.95	0.27	0.3	41	0.49
5x6	20040378	2.9	16.1	18.1	530	450	3.3	0.32	0.29	53	0.73
5x10	20004952	3.9	19	21	795	750	1.91	0.34	0.28	74	1.22
5x16		5.2	23.2	25.2	1200	1200	1.21	0.44	0.26	99	1.95
5x25		6.4	28	31	1850	1875	0.78	0.45	0.26	131	3.05
5x35	20173939	7.5	34.5	37.5	2650	2625	0.554	0.46	0.25	162	4.27
PROTOMONT(M) (N)SHOEU-O Control cables											
12x4	20004932	2.4	20.8	22.8	831	720	4.95	0.27	0.3	41	0.49
12x6	20004933	2.9	23.4	26.4	1129	1080	3.3	0.32	0.29	53	0.73
PROTOMONT(M) (N)SHOEU-J Control cables											
7x1,5	20004928	1.6	12.9	14.5	288	158	13.3	0.21	0.33	23	0.18
8x1,5		1.6	13.8	15.4	325	180	13.3	0.21	0.33	23	0.18
10x1,5		1.6	15.5	17.5	400	225	13.3	0.21	0.33	23	0.18
12x1,5	20004929	1.6	15.8	17.8	400	270	13.3	0.21	0.33	23	0.18
14x1,5		1.6	16.8	18.8	495	315	13.3	0.21	0.33	23	0.18
18x1,5	20173937	1.6	18.5	20.5	610	405	13.3	0.21	0.33	23	0.18
19x1,5	20042550	1.6	18.9	20.9	620	427	13.3	0.21	0.33	23	0.18
24x1,5	20173874	1.6	21.1	23.1	750	540	13.3	0.21	0.33	23	0.18
7x2,5		2	14.9	16.9	417	263	7.98	0.24	0.32	30	0.31
8x2,5	20004930	2	15.8	17.8	452	300	7.98	0.24	0.32	30	0.31
10x2,5		2	16.4	18.4	500	375	7.98	0.24	0.32	30	0.31
14x2,5		2	18.7	20.7	660	525	7.98	0.24	0.32	30	0.31
18x2,5	20191829	2	21.2	23.2	840	675	7.98	0.24	0.32	30	0.31
19x2,5	20206659	2	22.3	24.3	900	712	7.98	0.24	0.32	30	0.31
24x2,5	20004931	2	22.8	24.8	1009	900	7.98	0.24	0.32	30	0.31
37x2,5	20206660	2	29	31	1600	1388	7.98	0.24	0.32	30	0.31

Prysmian Kabel und Systeme GmbH
Alt Moabit 91D, 10559 Berlin
phone: +49 30 3675 40
email: kontakt@prysmiangroup.com

Technical data, dimensions and weights are subject to change.
© Prysmian Group, Germany 2014
www.prysmiangroup.com

Number of cores x cross section	Part number	Conductor diameter max. mm	Outer diameter min. mm	Outer diameter max. mm	Net weight approx. kg/km	Permissible tensile force max. N	Conductor resistance at 20°C max. Ω/km	Nominal operating capacitance µF/km	Inductance nom. mH/km	Current carrying capacity (1) A	Short Circuit Current (conductor) kA
PROTOMONT(M) (N)SHOEU-J... KON Control cables											
3x0,75/0,75KON	20179945	1.1	6.6	7.6	96	34	26	0.27	0.29	8	0.11
4x1,5/1,5KON	20179575	1.6	13	14.6	280	90	13.3	0.19	0.35	23	0.18
18x1,5/1,5KON	20183215	1.6	22	24	720	405	13.3	0.21	0.33	23	0.18
7x1,5/4KON	20179576	1.6	15.5	17.5	360	157	13.3	0.21	0.33	23	0.18
9x1,5/4KON	20179577	1.6	17.5	19.5	430	202	13.3	0.21	0.33	23	0.18
12x1,5/4KON	20179578	1.6	18	20	517	270	13.3	0.21	0.33	23	0.18
15x1,5/4KON	20179579	1.6	21	23	600	337	13.3	0.21	0.33	23	0.18
19x1,5/4KON	20179580	1.6	22	24	700	427	13.3	0.21	0.33	23	0.18
7x2,5/2,5KON	20179944	2	14	15.6	418	262	7.98	0.24	0.32	30	0.31
12x2,5/2,5KON	20179943	2	16	18	630	450	7.98	0.24	0.32	30	0.31

Prysmian Kabel und Systeme GmbH
Alt Moabit 91D, 10559 Berlin
phone: +49 30 3675 40
email: kontakt@prysmiangroup.com

Technical data, dimensions and weights are subject to change.
© Prysmian Group, Germany 2014
www.prysmiangroup.com