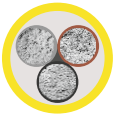
BiTmining®NSSHOEU

RoHS 2015/863/EU
LVD 2014/35/EU
CPR
CPR 305/2011
24 months warranty

Heavy duty rubber cable acc. to DIN VDE 0250-812



mining applications | industrial application | EN 60332-1-2 | high flexibility | UV resistance | oil resistant EN 60811-404 | mechanical resistance

Technical data:

Thermal parameters:

Ambient temperature:
fixed installation: -40 °C to 80 °C
free movement: -30 °C to 80 °C
Max. permissible conductor temp.: 90 °C
Max. short-circuit temp. at conductor: 200 °C

Mechanical parameters:

Max. tensile load on conductor: 15 N/mm²
Bending radius:
fixed installation: 4 x outer - Ø
free movement: 5 x outer - Ø

Design:

Main cores:
Conductors: tinned copper wires, finely stranded, acc. to IEC 60228 class 5
Insulation: EPR compound, type 3GI3 acc. to DIN VDE 0207-20, core colours: acc. to DIN VDE 0293-308

Ground conductor:
Conductor: tinned copper wires, finely stranded, acc. to IEC 60228 class 5
Insulation: EPR compound, type 3GI3 acc. to DIN VDE 0207-20, core colours: green-yellow
Inner sheath: synthetic rubber compound, type GM1b acc. to DIN VDE 0207-21, filling the interstices
Outer sheath: heavy duty rubber compound, type 5GM5 acc. to DIN VDE 0207-21, colour: yellow, inkjet marking

Application:

For the connection of mobile equipment and machines under very high mechanical loads in dry and damp areas, outdoors and in explosion hazard areas. Cables meet the requirements of DIN EN 50628: Erection of electrical installations in underground mines, DIN VDE 0168: Erection of electrical installation in open-cast mines, quarries and similar works and DIN VDE 0298-3: Application of cables and cords in power installations – Guide to use of non-harmonized low voltage cables.

Chemical parameters:

Resistance to oil:	DIN EN / IEC 60811-404
Behaviour in case of fire:	DIN EN / IEC 60332-1-2
Weather resistance:	unrestricted use indoors, outdoors, resistance to ozone UV and moisture

Electrical parameters:

Rated voltage U_0/U [kV]	0.6/1 kV
Maximum permissible operating voltage $U_{b\,max}$ in AC systems [kV]:	0.7/1.2 kV
Maximum permissible operating voltage $U_{b\,max}$ in DC systems [kV]:	0.9/1.8 kV
AC. test voltage acc. to DIN VDE 0250-812:	
- main cores:	3 kV
- control cores	2 kV
Current-carrying capacities in amperes acc to:	DIN VDE 0298-4 table 15 DIN EN 50628
De-rating factors acc. to:	DIN VDE 0298-4

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BiTmining®NSSHOEU-O

Cat. no.	n x mm²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
IP1400	1x1,5	6-9	55
IP1401	1x2,5	7-10	75
IP1402	1x4,0	8-11	95
IP1403	1x6,0	8-11	119
IP1404	1x10	10-13	175
IP1405	1x16	11-14	235
IP1406	1x25	13-16	375
IP1407	1x35	14-17	462
IP1408	1x50	16-19	627
IP1409	1x70	18-21	857
IP1410	1x95	21-24	1095
IP1411	1x120	22-25	1370
IP1412	1x150	25-28	1665
IP1413	1x185	29-32	2095
IP1414	1x240	31-34	2647

Cat. no.	n x mm²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
IP1415	1x300	34-37	3352
IP1487	1x400	38-41	4170
IP1416	2x1,5	12-15	172
IP1417	2x2,5	13-16	232
IP1418	2x4,0	15-18	309
IP1419	2x6,0	16-19	374
IP1420	2x10	19-22	560
IP1421	2x16	21-24	692
IP1422	2x25	26-29	1130
IP1423	2x35	28-31	1370
IP1424	2x50	32-35	1873
IP1425	2x70	36-39	2509
IP1426	2x95	41-44	3255
IP1427	2x120	48-51	4261

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Cat. no.	n x mm²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
IP1428	3x1,5	12-15	195
IP1429	3x2,5	14-17	269
IP1430	3x4	16-19	390
IP1431	3x6	18-21	475
IP1432	3x10	21-24	739
IP1433	3x16	23-26	948
IP1434	3x25	28-31	1456
IP1435	3x35	32-35	1873
IP1436	3x50	38-41	2621
IP1437	3x70	41-44	3405
IP1438	3x95	48-51	4505
IP1439	3x120	50-53	5370
IP1440	3x150	56-59	6513
IP1441	3x185	63-66	8187
IP1445	4x1,5	13-16	229
IP1446	4x2,5	16-19	363
IP1447	4x4	18-21	464
IP1448	4x6	19-22	572
IP1449	4x10	23-26	884
IP1450	4x16	26-29	1221
IP1451	4x25	32-35	1895
IP1452	4x35	35-38	2308
IP1453	4x50	41-44	3235
IP1454	4x70	45-48	4240
IP1455	4x95	52-55	5602
IP1456	4x120	57-60	6949
IP1457	4x150	62-65	8423
IP1458	4x185	71-74	10537
IP1459	5x1,5	14-17	266
IP1460	5x2,5	17-20	423
IP1461	5x4	19-22	545
IP1462	5x6	21-24	715
IP1463	5x10	25-28	1053
IP1464	5x16	28-31	1459
IP1465	5x25	35-38	2271
IP1466	5x35	39-42	2901
IP1467	5x50	44-47	3901
IP1468	5x70	51-54	5345

Cat. no.	n x mm²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
IP3989	5x95	57-60	6787
IP1469	6x1,5	16-19	352
IP1470	6x2,5	18-21	493
IP1471	6x4,0	21-24	681
IP1472	6x6,0	23-26	845
IP1473	6x10	27-30	1255
IP1474	6x16	31-34	1741
IP1475	6x25	38-41	2716
IP1476	6x35	42-45	3466
IP1477	6x50	50-53	4884
IP1478	7x1,5	17-20	396
IP1479	7x2,5	19-22	558
IP1480	7x4	23-26	772
IP1481	7x6	24-27	962
IP1482	7x10	30-33	1503
IP1483	7x16	34-37	2101
IP1484	7x25	42-45	3246
IP1485	7x35	45-48	3975
IP1486	7x50	53-56	5604
IP1489	10x1,5	20-23	538
IP1490	10x2,5	23-26	763
IP1491	12x1,5	21-24	592
IP1492	12x2,5	24-27	850
IP1493	12x4,0	28-31	1151
IP3990	14x1,5	21-24	617
IP1494	14x2,5	25-28	947
IP3991	14x4,0	28-31	1259
IP3992	16x1,5	22-25	684
IP4000	18x1,5	24-27	778
IP4001	18x2,5	28-31	1277
IP3993	19x1,5	25-28	860
IP4003	19x2,5	30-33	1318
IP3994	21x1,5	27-30	961
IP3995	24x1,5	29-32	1136
IP4004	24x2,5	35-38	1758
IP3996	27x1,5	30-33	1222
IP3997	37x1,5	32-35	1433
IP3998	50x1,5	36-39	1898
IP3999	50x2,5	44-47	2980

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Heavy duty rubber cable acc. to DIN VDE 0250-812

BiTmining®NSSHOEU.../3
protective conductor symmetrically split in the interstices

Cat. no.	n x mm²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
IP3980	3x25+3x16/3	29-32	1661
IP3981	3x35+3x16/3	31-34	1922
IP3982	3x50+3x25/3	36-39	2744
IP3983	3x70+3x35/3	41-44	3774
IP3984	3x120+3x70/3	49-52	5754
IP3985	3x150+3x70/3	56-59	7114
IP3986	3x185+3x95/3	62-65	8717
IP3987	3x240+3x120/3	68-71	11279

BiTmining®NSSHOEU.../3E
protective conductor symmetrically split over the insulated conductors, design acc. to DIN VDE 0250-1

Cat. no.	n x mm²	Outer diameter min. – max. [mm]	
IP4030	3x2,5+3x2,5/3E	15-18	342
IP4031	3x4+3x4/3E	18-21	475
IP4032	3x6+3x6/3E	19-22	584
IP4033	3x10+3x10/3E	23-26	922
IP4034	3x16+3x16/3E	25-28	1199
IP4035	3x25+3x16/3E	31-34	1725
IP4036	3x35+3x16/3E	33-36	2051
IP4037	3x50+3x25/3E	38-41	2925
IP4038	3x70+3x35/3E	44-47	3928
IP4039	3x95+3x50/3E	49-52	5067
IP4040	3x120+3x70/3E	54-57	6377
IP4041	3x150+3x70/3E	59-62	7549
IP4060	3x185+3x95/3E	67-70	9560

BiTmining®NSSHOEU.../3E+ST
protective conductor symmetrically split over the insulated conductors and ST conductors

Cat. no.	n x mm²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
IP4042	3x2,5+3x2,5/3E+3x1,5ST	20-23	572
IP4043	3x4+3x4/3E+3x1,5ST	20-23	589
IP4044	3x6+3x6/3E+3x1,5ST	20-23	642
IP4045	3x10+3x10/3E+3x2,5ST	23-26	975
IP4046	3x16+3x16/3E+3x2,5ST	25-28	1252
IP4047	3x25+3x16/3E+3x2,5ST	31-34	1791
IP4048	3x35+3x16/3E+3x2,5ST	33-36	2100
IP4049	3x50+3x25/3E+3x2,5ST	38-41	2948
IP4050	3x70+3x35/3E+3x2,5ST	44-47	3976
IP4051	3x95+3x50/3E+3x2,5ST	49-52	5135
IP4052	3x120+3x70/3E+3x2,5ST	54-57	6376
IP4053	3x150+3x70/3E+3x2,5ST	59-62	7538
IP4058	3x150+3x95/3E+3x2,5ST	60-63	7816
IP4059	3x185+3x95/3E+3x2,5ST	66-69	9543

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Heavy duty rubber cable acc. to DIN VDE 0250-812

BiTmining®NSSHOEU.../KON
concentric protective conductor between inner and outer sheath

Cat. no.	n x mm²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
IP3963	3x1,5/1,5 KON	14-17	239
IP3964	3x1,5/2,5 KON	14-17	249
IP3965	3x2,5/2,5 KON	15-18	325
IP3966	3x4/4 KON	19-22	473
IP3967	3x6/6 KON	20-23	583
IP3968	3x10/10 KON	24-27	899
IP3969	3x16/16 KON	26-29	1194
IP3970	4x4/4 KON	19-22	525
IP3971	4x6/6 KON	21-24	667
IP3972	4x10/10 KON	24-27	1027
IP3973	4x16/16 KON	27-30	1427
IP3974	5x2,5/2,5 KON	17-20	441
IP3975	5x4/4 KON	18-21	574
IP3976	5x6/6 KON	20-23	764
IP3977	7x1,5/1,5 KON	16-19	406
IP3978	12x1,5/1,5 KON	17-20	559
IP3979	5x95/50 KON	60-63	7675

Cable Factory BITNER reserves the right to modify the specifications without prior notice
Note: on customer's request other cross sections or number of cores can be produced