

Power and control cables

Special applications • Cleanroom



ÖLFLEX® CLEANROOM FD 8110

LAPP KABEL STUTTGART ÖLFLEX® CLEANROOM FD 8110

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Info

- Low voltage power and control cable for CLEANROOM

Benefits

- Cost-effective solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- CLEANROOM

Product features

- Flame retardant according to IEC 60332-1-2
- Low-adhesive surface

Norm references / Approvals

- CLEANROOM classification for IPA Class 1
- Power Chain application: Compliance with Assembly Guidelines Appendix T3

Product Make-up

- Conductor : Extra-fine wire strand made of bare copper wires (class 6)
- Core insulation : Polyvinyl Chloride
- Core insulation colour : Black
- Outer sheath : Polyvinyl Chloride
- Outer sheath colour : Black

Technical data



Conductor stranding

Stranded made of bare copper wire (Design acc.to IEC60228 Cl.6



Minimum bending radius

For flexible use: 7.5 x outer diameter, Fixed installation: 4 x outer diameter



Nominal voltage

300/500 V



Test voltage

4000 V



Range of temperature

Flexing: 0°C up to +70 °C, Fixed installation: -40°C up to +80°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Conductor Weight (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8110				
85130000	2x0.5	5.0	10	30
85130001	3x0.5	5.3	14	38
85130002	4x0.5	5.7	19	48
85130003	5x0.5	6.2	24	58
85130004	7x0.5	7.3	34	82
85130005	10x0.5	9.0	48	129
85130006	12x0.5	10.1	58	124
85130007	18x0.5	13.6	86	192
85130008	2x0.75	5.5	14	37
85130009	3x0.75	5.8	22	48
85130010	4x0.75	6.3	29	61
85130011	5x0.75	6.8	36	75
85130012	7x0.75	8.2	50	110
85130013	12x0.75	11.4	86	167
85130014	15x0.75	12.1	108	195
85130015	16x0.75	14.0	115	228
85130016	18x0.75	15.2	130	257
85130017	2x1.0	5.8	19	44
85130018	3x1.0	6.1	29	57
85130019	4x1.0	6.6	38	74
85130020	5x1.0	7.2	48	91
85130021	7x1.0	8.7	67	133
85130022	12x1.0	12.2	115	203
85130023	14x1.0	13.7	134	242
85130024	16x1.0	15.0	154	277
85130025	18x1.0	16.5	173	320
85130026	2x1.5	6.5	29	59
85130027	3x1.5	6.9	43	78
85130028	4x1.5	7.5	58	101
85130029	5x1.5	8.4	72	128
85130030	7x1.5	10.0	101	186
85130031	9x1.5	11.7	130	252
85130032	12x1.5	13.9	173	285
85130033	16x1.5	17.1	230	386
85130034	18x1.5	18.8	259	444
85130035	3x2.5	8.9	72	127
85130036	4x2.5	9.8	96	164
85130037	5x2.5	10.9	120	208
85130038	7x2.5	13.2	168	307
85130039	12x2.5	18.5	288	471
85130040	14x2.5	20.7	336	557
85130041	18x2.5	25.0	432	729
85130042	3x4.0	10.4	115	185
85130043	4x4.0	11.4	154	240
85130044	5x4.0	12.7	192	304
85130045	4x6.0	13.9	230	356
85130046	5x6.0	15.4	288	449
85130047	7x6.0	18.6	403	656
85130048	4x10.0	17.2	384	569
85130049	5x10.0	19.1	480	718
85130050	4x16.0	20.5	614	851
85130051	5x16.0	22.9	768	1085
85130052	3x35.0	25.7	1008	1316

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New referencesy Approvals

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- Power Chain application: Compliance with Assembly Guidelines Appendix T3

Product Make-up

- Conductor : Extra-fine wire strand made of bare copper wires (class 6)
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- Core insulation colour : Black
- Outer sheath : Polyvinyl Chloride
- Outer sheath colour : Black

Technical data



Conductor stranding
Stranded made of bare copper wire (Design acc.to IEC60228 Cl.6)



Minimum bending radius
For flexible use: 7.5 x outer diameter,
Fixed installation: 4 x outer diameter



Nominal voltage
300/500 V



Test voltage
4000 V



Range of temperature
Flexing: 0°C up to +70 °C, Fixed installation: -40°C up to +80°C

Product features

- Flame retardant according to IEC60332-1-2
- Low-adhesive surface

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Conductor Weight (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8110 C				
85130100	2x0.5	6.9	9.6	83.4
85130101	3x0.5	7.3	14.4	96.6
85130102	4x0.5	7.9	19.2	113.3
85130103	5x0.5	8.4	24.0	129.8
85130104	7x0.5	9.8	33.6	177.3
85130105	12x0.5	11.3	57.6	219.4
85130106	18x0.5	13.4	86.4	287.2
85130107	2x0.75	7.3	14.4	95.2
85130108	3x0.75	7.8	21.6	112.0
85130109	4x0.75	8.4	28.8	132.3
85130110	5x0.75	9.0	36.0	153.3
85130111	7x0.75	10.7	50.4	215.5
85130112	12x0.75	12.4	86.4	267.3
85130113	16x0.75	14.2	115.2	344.4
85130114	18x0.75	14.9	129.6	372.7
85130115	2x1.0	7.7	19.2	105.4
85130116	3x1.0	8.2	28.8	125.5
85130117	4x1.0	8.9	38.4	151.8
85130118	5x1.0	9.8	48.0	186.3
85130119	7x1.0	11.4	67.2	248.7
85130120	12x1.0	13.4	115.2	331.0
85130121	16x1.0	15.2	153.6	401.2
85130122	18x1.0	16.1	172.8	439.4
85130123	2x1.5	8.4	28.8	127.3
85130124	3x1.5	9.0	43.2	155.0
85130125	4x1.5	9.9	57.6	194.3
85130126	5x1.5	10.9	72.0	234.5
85130127	7x1.5	12.7	100.8	318.4
85130128	12x1.5	15.1	172.8	433.2
85130129	16x1.5	16.8	230.4	511.9
85130130	18x1.5	17.8	259.2	550.9
85130131	3x2.5	10.8	72.0	222.6
85130132	4x2.5	11.8	96.0	276.3
85130133	5x2.5	13.2	120.0	354.0
85130134	7x2.5	15.8	168.0	500.9
85130135	9x2.5	18.1	216.0	603.6
85130136	12x2.5	18.2	288.0	609.4
85130137	14x2.5	19.8	336.0	728.1
85130138	3x4.0	11.4	115.2	351.2
85130139	4x4.0	13.7	153.6	437.7
85130140	5x4.0	15.3	192.0	423.6
85130141	4x10.0	20.2	384.0	857.5
85130142	5x10.0	22.2	480.0	1043.4
85130143	4x16.0	23.6	614.4	1197.7
85130144	5x16.0	26.6	768.0	1539.2