



i Info

- Flexible cable for power chain use
- Cable for Cleanroom use

UNITRONIC® CLEANROOM FD 8113 MC

LAPP KABEL STUTTGART UNITRONIC® CLEANROOM FD 8113 MC

Benefits

- Fire retardant in according to IEC 60332-1-2
- low article emission
- IPA Class 1

Application range

- Cleanroom application
- Assembly lines, production lines, in all kinds of machines
- Suitable for use in measuring, control and regulation circuits.

Product features

- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- IPA Class 1 test in according to ISO 14644-1
- For travel distance up to 10 m
- For use in power chains (refer to Appendix T3)

Product Make-up

- Conductor: Fine wire strands of bare copper
- Core: Specially formulated PVC
- Outer sheath: Specially formulated PVC
- Outer sheath colour: Black

Technical data

- Core identification code**
DIN 47100, refer to Appendix T9
- Conductor stranding**
Extra-fine wire strands of bare copper
- Mutual Capacitance**
C/C : approx. 110 nF/km
- Maximum operating voltage**
0.14 mm² : 500 V (Not for power application)
0.25 mm² and 0.34 mm² : 900V (Not for power application)
- Inductivity**
approx. 0.75 mH/km
- Minimum bending radius**
Flexing : 5 x Out diameter
Fixed installation : 3 x Out diameter
- Test voltage**
0.14 mm² : 1,200 V
0.25 mm² and 0.34 mm² : 2,500V
- Temperature range**
Flexing : 0°C to +70°C
Fixed installation : - 40°C to +80°C

Article number	Number of cores and mm² per conductor	Outer diameter Average (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC CLEANROOM FD 8113 MC				
85132002	2x0.14	4.43	2.76	22.70
85132001	3x0.14	4.78	4.17	26.42
85132003	4x0.14	5.13	5.58	30.78
85132004	5x0.14	5.48	7.01	35.44
85132005	6x0.14	5.84	8.43	40.35
85132006	7x0.14	6.19	9.87	45.47
85132007	8x0.14	6.54	11.30	50.81
85132008	9x0.14	6.90	12.74	56.34
85132009	10x0.14	7.25	14.18	62.07
85132010	14x0.14	7.25	19.16	65.53
85132011	18x0.14	7.96	24.76	80.48
85132051	2x0.25	4.70	4.67	27.61
85132052	3x0.25	5.12	7.04	32.82
85132053	4x0.25	5.54	9.43	38.94
85132054	5x0.25	5.96	11.84	45.49
85132055	6x0.25	6.38	14.25	52.38
85132056	7x0.25	6.80	16.68	59.59
85132057	8x0.25	7.22	19.10	67.09
85132058	9x0.25	7.64	21.54	74.88
85132059	10x0.25	8.06	23.97	82.95
85132060	14x0.25	8.06	33.02	90.11
85132061	18x0.25	8.90	42.76	112.25
85132101	2x0.34	5.17	6.22	33.91
85132102	3x0.34	5.67	9.38	40.68
85132103	4x0.34	6.16	12.56	48.72
85132104	5x0.34	6.66	15.76	57.38
85132105	6x0.34	7.16	18.98	66.51
85132106	7x0.34	7.66	22.20	76.08
85132107	8x0.34	8.16	25.43	86.06
85132108	9x0.34	8.65	28.67	96.44
85132109	10x0.34	9.15	31.91	107.22
85132110	14x0.34	9.15	43.11	115.43
85132111	18x0.34	10.15	55.70	144.48



UNITRONIC® CLEANROOM FD 8113 C MC



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Benefits

- Fire retardant in according to IEC 60332-1-2
- low article emission
- IPA Class 1
- Low electrical interference by overall braiding

Application range

- Cleanroom application
- Assembly lines, production lines, in all kinds of machines
- Suitable for use in measuring, control and regulation circuits.

Product features

- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- IPA Class 1 test in according to ISO 14644-1
- For travel distance up to 10 m
- For use in power chains (refer to Appendix T3)

Product Make-up

- Conductor: Fine wire strands of bare copper
- Core: Specially formulated PVC
- Shield: Tinned-copper braiding
- Outer sheath: Specially formulated PVC
- Outer sheath colour: Black

Technical data

- Core identification code**
DIN 47100, refer to Appendix T9
- Conductor stranding**
Extra-fine wire strands of bare copper
- Mutual Capacitance**
C/C : approx. 110 nF/km
- Maximum operating voltage**
0.14 mm² : 500 V
(Not for power application)
0.25 mm² and 0.34 mm² : 900V
(Not for power application)
- Inductivity**
approx. 0.75 mH/km
- Minimum bending radius**
Flexing : 7.5 x Out diameter
Fixed installation : 4 x Out diameter
- Test voltage**
0.14 mm² : 1,200 V
0.25 mm² and 0.34 mm² : 2,500V
- Temperature range**
Flexing : 0°C to +70°C
Fixed installation : - 40°C to +80°C

Article number	Number of cores and mm² per conductor	Outer diameter Average (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC CLEANROOM FD 8113 C MC				
85132202	2x0.14	4.95	9.94	29.98
85132201	3x0.14	5.31	11.70	34.54
85132203	4x0.14	5.76	16.19	42.56
85132204	5x0.14	6.12	18.06	47.63
85132205	6x0.14	6.47	21.36	54.32
85132206	7x0.14	6.82	22.89	59.44
85132207	8x0.14	7.18	26.20	66.53
85132208	9x0.14	7.53	27.75	72.05
85132209	10x0.14	7.88	31.40	79.87
85132210	14x0.14	7.88	36.13	83.32
85132211	18x0.14	8.59	44.18	100.26
85132251	2x0.25	5.46	14.35	37.57
85132252	3x0.25	5.88	16.83	43.59
85132253	4x0.25	6.30	19.86	50.43
85132254	5x0.25	6.72	24.22	58.89
85132255	6x0.25	7.14	26.72	65.76
85132256	7x0.25	7.56	31.11	74.80
85132257	8x0.25	7.98	33.65	82.25
85132258	9x0.25	8.40	38.56	92.35
85132259	10x0.25	8.82	41.09	100.35
85132260	14x0.25	8.82	50.14	107.31
85132261	18x0.25	9.66	61.97	130.70
85132301	2x0.34	5.93	16.72	43.40
85132302	3x0.34	6.43	22.24	53.52
85132303	4x0.34	6.92	25.71	61.96
85132304	5x0.34	7.42	30.97	72.59
85132305	6x0.34	7.92	36.24	83.61
85132306	7x0.34	8.42	39.41	92.92
85132307	8x0.34	8.92	42.60	102.63
85132308	9x0.34	9.41	51.25	118.18
85132309	10x0.34	9.91	54.47	128.70
85132310	14x0.34	9.91	66.22	137.64
85132311	18x0.34	10.91	82.90	169.85