

UNITRONIC-FD®

Very Flexible, Continuous Flex Data Transmission Cable

UNITRONIC-FD® is a very flexible, multi-conductor, data transmission cable designed for automated production processes requiring increased flex life characteristics and durability. The small cable diameters allow installation in confined operating areas.

The specially blended PVC jacket is resistant to mineral oils, synthetic oils and water based coolants and prevents the cable from adhering to adjacent cables and cable track.

Construction:

Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; non-wicking textile wrap; specially formulated gray PVC jacket.



Technical Data:

Minimum bend radius
for continuous flexing: 10 x cable diameter

Temperature range: -5°C to +70°C

Rated voltage: 300 V

Test voltage: 1500 V

Insulation resistance: 10 GW x cm

Conductor stranding: Super fine wire,
diameter 0.10 mm

Color code: Chart 8, DIN 47100, page 225

Based on VDE specifications

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
26 AWG (18/38) 0.14 mm ²						22 AWG (42/38) 0.34 mm ²					
27840	2	.169	4.3	15	23	27861	14	.335	8.5	72	108
27841	3	.173	4.4	17	26	27863	18	.362	9.2	87	130
27842	4	.185	4.7	21	31	27865	25	.441	11.2	119	178
27843	5	.197	5.0	23	35						
27844	7	.244	6.2	34	50	27870	2	.201	5.1	26	38
27845	10	.283	7.2	42	63	27871	3	.205	5.2	29	43
27846	14	.291	7.4	52	77	27872	4	.236	6.0	38	57
27847	18	.315	8.0	61	91	27873	5	.256	6.5	44	65
27848	25	.378	9.6	84	125	27874	7	.295	7.5	57	85
24 AWG (32/38) 0.25 mm ²						27875	10	.362	9.2	79	117
27855	2	.181	4.6	20	30	27876	14	.366	9.3	101	151
27856	3	.189	4.8	22	33	27877	18	.409	10.4	122	182
27857	4	.205	5.2	27	40	27878	25	.500	12.7	168	250
27858	5	.240	6.1	34	51						
27859	7	.272	6.9	43	64						
27860	10	.327	8.3	56	84						

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