



Flexible data transmission cable

APPLICATION

- This cable will be used as signal, connecting and control cable, predominantly for transmission of data in measurement and control technology
- For fixed laying and flexible applications with undefined cable routing and without tensile stress.
- Suitable for use in dry and humid rooms.

BENEFITS

- Space-saving installation due to small cable diameters
- Multifunctional application possibilities

CONSTRUCTION

- Fine strands of bare copper wire
- PVC core insulation marked as per DIN 47100
- Cores twisted into layers
- PVC outer sheath grey, RAL 7001
- Stranding acc. to VDE 0295 class 5 (exception 0,34mm² multi-wire)

TECHNICAL DATA

Conductor Material

Copper, bare

Conductor Class

Class 5 acc. to DIN VDE 0295 or IEC 60228

Core Insulation

PVC

Core Identification

DIN 47100 different colours

Stranding

Cores twisted in layers

Outer Sheath

PVC

Sheath Colour

Grey (RAL 7001)

Rated Voltage [V]

350 / 500

Testing Voltage [V]

0,14 mm² = 1200 V > 0,14 mm² = 1500

Conductor Resistance

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Insulation Resistance

20 MΩ x km

Current Carrying Capacity

DIN VDE (see technical guidelines)

Min. Bending Radius Fixed [xd]

bis 12mm Ø: 5 x d bis 20mm Ø: 7,5 x d > 20mm Ø: 10

Min. Bending Radius Moved [xd]

bis 12mm Ø: 10 x d bis 20mm Ø: 15 x d > 20mm Ø: 20

Working Temp Fixed Min/Max [C]

-30°C up to +80

Working Temp Moved Min/Mac [C]

-15°C up to +80

Temp at Conductor Max.

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Burning Behaviour

IEC 60332-1: self-extinguishing and flame-retardant

Approvals

VDE 0812, 0814 and DIN 47414



IPT-KABEL

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
22020014	2 x 0.14	3.2	0.27	1.2
22020025	2 x 0.25	3.7	0.5	1.7
22020034	2 x 0.34	4.4	0.7	2.4
22020050	2 x 0.50	4.8	0.96	2.6
22020075	2 x 0.75	5.2	1.44	4.8
22020100	2 x 1.00	5.6	1.9	6.1
22020150	2 x 1.50	6.8	2.9	6
22030014	3 x 0.14	3.5	0.4	1.7
22030025	3 x 0.25	4	0.72	2.1
22030034	3 x 0.34	4.5	1	2.8
22030050	3 x 0.50	5.1	1.44	3.1
22030075	3 x 0.75	5.5	2.2	5.7
22040014	4 x 0.14	3.6	0.54	1.9
22040025	4 x 0.25	4.4	0.96	2.7
22040034	4 x 0.34	5	1.3	3.9
22040050	4 x 0.50	5.4	1.9	4.2
22040075	4 x 0.75	6.1	2.9	6.9
22040100	4 x 1.00	6.5	3.84	8.5
22050014	5 x 0.14	3.9	0.67	2.2
22050025	5 x 0.25	4.8	1.2	3.2
22050034	5 x 0.34	5.8	1.6	4.4
22050050	5 x 0.50	6.1	2.4	4.7
22050075	5 x 0.75	7	3.6	7.7
22060014	6 x 0.14	4.2	0.81	2.5
22060025	6 x 0.25	5.1	1.44	4
22060034	6 x 0.34	6	2	5.5
22060050	6 x 0.50	6.6	2.9	6.2
22060075	6 x 0.75	7.3	4.32	10.3
22070014	7 x 0.14	4.2	1	2.7
22070025	7 x 0.25	5.3	1.7	4.2
22070034	7 x 0.34	6.3	2.28	6
22070050	7 x 0.50	6.8	3.4	6.5
22070075	7 x 0.75	7.5	5	12.5
22080014	8 x 0.14	4.7	1.1	3
22080025	8 x 0.25	5.8	1.9	5.1
22080034	8 x 0.34	6.7	2.61	6.3

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
22080050	8 x 0.50	7.5	3.9	7.8
22080075	8 x 0.75	8.3	5.9	12.3
22090014	9 x 0.14	5.2	1.2	3.3
22090025	9 x 0.25	6.2	2.16	5.3
22090034	9 x 0.34	7.6	2.94	7.64
22100014	10 x 0.14	5.3	1.34	4.1
22100025	10 x 0.25	6.4	2.4	6.1
22100034	10 x 0.34	7.5	3.3	7.65
22100050	10 x 0.50	8.2	4.8	9.2
22120014	12 x 0.14	5.6	1.6	4.8
22120025	12 x 0.25	6.8	2.9	7.1
22120034	12 x 0.34	7.8	8.8	8.5
22120050	12 x 0.50	8.7	5.8	12.1
22120075	12 x 0.75	10.1	8.7	17.9
22140014	14 x 0.14	5.8	1.9	5.4
22140025	14 x 0.25	7.4	3.4	7.5
22140034	14 x 0.34	8.2	4.6	10
22140050	14 x 0.50	10.8	6.72	13
22160014	16 x 0.14	6.1	2.15	6
22160025	16 x 0.25	7.6	3.84	8.1
22160034	16 x 0.34	8.7	5.2	11.7
22160075	16 x 0.75	11.4	11.6	23
22160050	16 x 0.50	10.2	7.7	14.6
22180014	18 x 0.14	7	2.42	7.2
22180025	18 x 0.25	8.6	4.3	10.4
22180034	18 x 0.34	9.8	5.9	13.52
22180050	18 x 0.50	12	8.64	16.6
22200014	20 x 0.14	6.9	2.7	7.3
22200025	20 x 0.25	8.50	4.80	10.50
22200034	20 x 0.34	10	6.5	14.6
22200050	20 x 0.50	11.7	9.7	17.6
22200075	20 x 0.75	12.6	14.4	27.4
22210014	21 x 0.14	7.2	2.8	7.7
22210025	21 x 0.25	9.1	5.3	12
22210034	21 x 0.34	10.1	6.9	16.1
22210050	21 x 0.50	13	10.08	18.4



IPT-KABEL

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
22240014	24 x 0.14	7.5	3.23	9.4
22240025	24 x 0.25	9.7	5.9	12.5
22240034	24 x 0.34	11.2	7.9	17.1
22240050	24 x 0.50	12.7	11.6	22.1
22240075	24 x 0.75	14.3	17.6	29.7
22270014	27 x 0.14	7.8	3.6	8.5
22270025	27 x 0.25	10.2	6.48	15.3
22270034	27 x 0.34	11.6	8.8	18.82
22270050	27 x 0.50	14.7	12.96	24.4
22300014	30 x 0.14	8.2	4.1	9.6
22300025	30 x 0.25	10.5	7.2	16.8
22300034	30 x 0.34	11.8	9.8	20.62
22300050	30 x 0.50	13.8	14.4	27.2
22300075	30 x 0.75	15.3	21.7	39.4
22320014	32 x 0.14	8.4	4.3	10.5
22320025	32 x 0.25	10.7	7.7	18.2
22320034	32 x 0.34	12.2	10.6	22.3
22320050	32 x 0.50	14	15.36	29.1
22360014	36 x 0.14	8.8	4.9	11.4
22360025	36 x 0.25	11.2	8.7	20
22360034	36 x 0.34	12.6	11.8	24.42
22360050	36 x 0.50	14.8	17.28	31.4
22400014	40 x 0.14	9.4	5.4	12.7
22400025	40 x 0.25	12	9.6	21
22400034	40 x 0.34	13.3	13	29.9
22400050	40 x 0.50	15.6	19.2	34.5
22440014	44 x 0.14	9.8	5.9	14.53
22440025	44 x 0.25	13.4	10.56	24.9
22440034	44 x 0.34	14.4	14.4	29.2
22440050	44 x 0.50	17.5	21.12	39.2
22500014	50 x 0.14	10.5	6.8	15.4
22500025	50 x 0.25	13.4	12.2	27.8
22500034	50 x 0.34	15	16.32	33.7
22500050	50 x 0.50	19.4	24	44
22520014	52 x 0.14	10.7	7	16.34
22520025	52 x 0.25	13.9	12.48	28.7

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
22520034	52 x 0.34	15.1	17	33.8
22520050	52 x 0.50	19.8	24.96	45.4
22610014	61 x 0.14	11.5	8.2	19.05
22610025	61 x 0.25	14.5	14.7	33.8
22610034	61 x 0.34	16	19.9	39
22610050	61 x 0.50	20.8	29.28	53.6
22800014	80 x 0.14	16.1	10.8	23.5
22800025	80 x 0.25	19.6	19.2	53.4
22800034	80 x 0.34	22	26.4	51.1
22800050	80 x 0.50	24.3	38.4	70.4
221000014	100 x 0.14	19	13.5	25
221000025	100 x 0.25	23.1	24	66.7
221000034	100 x 0.34	25.4	32.7	63.9
221000050	100 x 0.50	29.6	48	88