

According to DIN 47100/0Z



APPLICATION

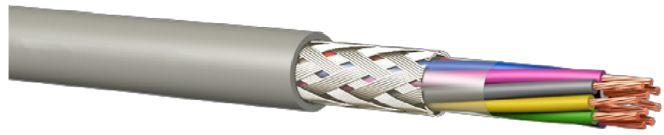
- Used as junction or connecting cables in control, measuring and signalling technology as well as in data processing and office technology for lossless transmission of data and signals.
- The tight copper screening provides optimum protection against external electrical interference.
- Suitable for use in dry and humid rooms. For fixed laying and flexible applications with undefined cable routing and without tensile stress.
- Good chemical resistance, largely oil resistant.

BENEFITS

- Overall braid minimises electrical interface
- Multifunctional application possibilities

CONSTRUCTION

- Fine strands of bare copper conductor
- Stranding acc. to VDE 0295 class 5
- PVC core insulation
- Coloured cores acc. to DIN 47100 for cross sections from 0,14 to 0,75 mm²
- Black cores with continuous figure imprint in white from cross sections 1,0 to 10,0 mm²
- Overall screen of tinned copper wires
- Cores twisted into layers
- Foil wrapping
- PVC outer sheath grey, RAL 7001 or RAL 7032



TECHNICAL DATA

Conductor Material

Copper, bare

Conductor Class

Class 5 acc. to DIN VDE 0295 or IEC 60228

Core Insulation

PVC

Core Identification

Cross sections from 0,14 to 0,75 mm² coloured cores acc. to DIN 47100 1,0 to 10 mm² : black cores with continuous figure imprint in white

Stranding

Cores twisted in layers

Outer Sheath

PVC

Sheath Colour

Grey (RAL 7001)

Rated Voltage [V]

300/500

Testing Voltage [V]

1200 / 1500

Conductor Resistance

*Nach DIN VDE 0295, bzw. IEC 60228

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.

*

Burning Behaviour

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

Approvals

VDE 0812



IPT-KABEL

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
20010014	1 x 0.14	3.6	0.8	1.7
20010025	1 x 0.25	3.1	0.8	1.4
20010034	1 x 0.34	3.2	1	1.6
19010050	1 x 0.50	3.6	1.4	2.1
19010075	1 x 0.75	3.8	1.8	2.7
19010100	1 x1	4.9	2.3	4.4
19010150	1 x 1.50	5.1	2.9	4.9
19010250	1 x 2.50	5.9	6.5	9.5
20020014	2 x 0.14	3.9	1.1	2.1
20020025	2 x 0.25	4.5	1.5	2.8
20020034	2 x 0.34	5	2	3.1
19020050	2 x 0.50	5.4	2.6	3.6
19020075	2 x 0.75	5.6	3.5	6.2
19020100	2 x1	6.4	5.5	8.4
19020150	2 x 1.50	7.2	6.5	9.7
19020250	2 x 2.50	10.1	9.8	14.8
19020400	2 x4	11.7	13.5	19.4
19020600	2 x6	13.1	17.5	25.1
19021000	2 x 10	15.5	26.5	36
20030014	3 x 0.14	4	1.2	4
20030025	3 x 0.25	4.7	2	3.4
20030034	3 x 0.34	5.1	2.4	3.8
19030050	3 x 0.50	5.8	3.5	4.5
19030075	3 x 0.75	6.3	4.8	7.3
19030100	3 x1	6.7	6.6	10
19030150	3 x 1.50	7.7	9	12.5
19030250	3 x 2.50	10.6	12.4	18.8
19030400	3 x4	12.4	17.8	25
19030600	3 x6	13.9	24	28.5
19031000	3 x 10	16.5	37	48.5
20040014	4 x 0.14	4.3	1.4	4.3
20040025	4 x 0.25	5	2.2	4
20040034	4 x 0.34	5.6	2.5	4.6
19040050	4 x 0.50	6.2	4.5	5.4
19040075	4 x 0.75	7	5.6	9.5
19040100	4 x1	7.2	8	12

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
19040150	4 x 1.50	8.2	11	14.5
19040250	4 x 2.50	11.6	15	23.6
19040400	4x 4	13.5	22	30.2
19040600	4x 6	15.2	30.5	41.2
19041000	4 x 10	18.1	48.5	62
20050014	5 x 0.14	4.7	1.6	4.7
20050025	5 x 0.25	5.5	2.7	4.7
20050034	5 x 0.34	6	3	5.4
19050050	5 x 0.50	6.7	5.3	6.7
19050075	5 x 0.75	7.4	7	12
19050100	5x 1	7.8	9	13.6
19050150	5 x 1.50	9	12.7	17.3
19050250	5 x 2.50	12.6	18	27
19050400	5x 4	14.8	27	37
19050600	5x 6	16.7	37	50.5
19051000	5 x 10	20	59.5	79.6
20060014	6 x 0.14	5	1.9	5.2
20060025	6 x 0.25	6	3	5.9
20060034	6 x 0.34	6.6	4.3	6.7
19060050	6 x 0.50	7.3	6.8	8.1
19060075	6 x 0.75	8	8.5	14.5
19060250	6 x 2.50	13.7	21	30.5
19060400	6x 4	16.1	31.5	42.4
19060600	6x 6	18.2	44	59.7
19061000	6 x 10	22.8	72	90.5
20070014	7 x 0.14	5.1	2	5.4
20070025	7 x 0.25	6	3.5	6.1
20070034	7 x 0.34	6.6	4.6	7
19070050	7 x 0.50	7.4	7	8.4
19070075	7 x 0.75	8.3	9.8	15.8
19070100	7x 1	8.5	12	16.2
19070150	7 x 1.50	10	16.2	22.5
19070250	7 x 2.50	13.7	23.5	34
19070400	7x 4	16.1	35.5	47.3
19070600	7x 6	18.2	50.5	67.1
19071000	7 x 10	22.8	82	106.2



IPT-KABEL

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
20080014	8 x 0.14	5.4	2.3	5.8
20080025	8 x 0.25	6.5	4	6.6
20080034	8 x 0.34	7	5	7.6
19080050	8 x 0.50	8	8.5	11.1
19080075	8 x 0.75	8.6	11.6	16.3
19080100	8 x 1	10.5	13	20.3
19080150	8 x 1.50	11.5	17.5	27
19080250	8 x 2.50	14.8	26.2	38.22
20100014	10 x 0.14	6	2.8	5.2
20100025	10 x 0.25	7.4	4.2	8
20100034	10 x 0.34	8.1	7.3	10.4
19100050	10 x 0.50	9.2	10	13.4
19100075	10 x 0.75	11	13.1	19.5
19100100	10 x 1	11.1	15.5	23.1
19100150	10 x 1.50	12.9	21	33.8
19100250	10 x 2.50	18.3	33.5	51.2
20120014	12 x 0.14	6.2	3	8.1
20120025	12 x 0.25	7.6	5.6	9.1
20120034	12 x 0.34	8.4	7.6	12.8
19120050	12 x 0.50	9.5	11	15.6
19120075	12 x 0.75	11.2	14.8	23.2
19120100	12 x 1	11.6	18.2	26.5
19120150	12 x 1.50	13.2	25.1	36.5
19120250	12 x 2.50	18.5	38.6	58.5
20140014	14 x 0.14	6.5	3.3	6.5
20140025	14 x 0.25	8	5.9	12
20140034	14 x 0.34	8.8	8.6	14.1
19140050	14 x 0.50	11.7	12.5	16.9
19140075	14 x 0.75	12	16.7	26
19140100	14 x 1	12.4	20.5	29.2
19140150	14 x 1.50	14.1	28	41
20150014	15 x 0.14	6.9	3.9	7
20150025	15 x 0.25	8.2	6.1	12.7
20150034	15 x 0.34	9	8.8	15.2
19150050	15 x 0.50	12	13	18
20160014	16 x 0.14	7	4.3	9.7

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
20160025	16 x 0.25	8.5	6.7	13.5
20160034	16 x 0.34	9.2	9.2	15.5
19160050	16 x 0.50	12.3	14	19.5
19160075	16 x 0.75	12.5	18.3	29.6
19160100	16 x 1	13.1	22	33.1
19160150	16 x 1.50	15	31.5	46.5
20180014	18 x 0.14	7.3	5	7.9
20180025	18 x 0.25	8.8	8	15
20180034	18 x 0.34	10.1	9.9	16.6
19180050	18 x 0.50	11.5	14.2	21.5
19180075	18 x 0.75	12.9	20.5	31.5
19180100	18 x 1	13.6	24.5	36
19180150	18 x 1.50	16	34.5	51.3
20200014	20 x 0.14	7.8	5.7	11.6
20200025	20 x 0.25	9.6	10	15.7
20200034	20 x 0.34	10.5	12.4	19.5
19200050	20 x 0.50	12.2	16.5	23.4
19200075	20 x 0.75	14.9	22	36.4
19200100	20 x 1	15.9	27	38.8
19200150	20 x 1.50	17	37.5	63.5
20210014	21 x 0.14	7.8	5.9	9.6
20210025	21 x 0.25	9.4	10.4	16.3
20210034	21 x 0.34	10.8	13	20.2
19210050	21 x 0.50	12.8	17.1	25.1
20240014	24 x 0.14	8.5	7	10.6
20240025	24 x 0.25	10.4	11.5	16.1
20240034	24 x 0.34	12	14	23.4
19240050	24 x 0.50	13.1	23.6	28.8
19240075	24 x 0.75	15.2	26.6	39.8
19240100	24 x 1	17.5	32	45.1
19240150	24 x 1.50	19.7	44.5	70.5
19250100	25 x 1	17.5	33	47.5
20250050	25 x 0.50	13.4	25	31.3
20250075	25 x 0.75	16.6	28.08	40.4
19250150	25 x 1.50	20.1	46.5	72
20270014	27 x 0.14	9.1	8.4	12.2



IPT-KABEL

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
20270025	27 x 0.25	11	12.3	17.2
20270034	27 x 0.34	12.2	15	24.6
19270050	27 x 0.50	14.2	20.6	32.1
20300014	30 x 0.14	9.3	9	12.9
20300025	30 x 0.25	11.2	13	18.7
20300034	30 x 0.34	12.8	15.6	28.2
19300050	30 x 0.50	14.7	22.5	34.8
19300075	30 x 0.75	16.4	31.5	49
19300100	30 x 1	20.6	39.5	55.4
19300150	30 x 1.50	20.7	55.5	77.6
20320014	32 x 0.14	9.6	9.6	13.8
20320025	32 x 0.25	11.4	13.5	20.1
20320034	32 x 0.34	13.3	16.5	29.8
19320050	32 x 0.50	15.2	23.6	37.3
19320075	32 x 0.75	16.7	33	52
19340100	34 x 1	21.5	44	62.9
19340150	34 x 1.50	21.5	61.2	89.6
20360014	36 x 0.14	9.6	11.4	14.8
20360025	36 x 0.25	11.7	14.5	21.7
20360034	36 x 0.34	13.8	18.3	32.2
19360050	36 x 0.50	15.7	26	40.5
19360075	36 x 0.75	17.2	37	60.6
19360150	36 x 1.50	23.3	63	98.5
20400014	40 x 0.14	10.3	12.3	16.5
20400034	40 x 0.34	14.2	19.8	35.2
19400050	40 x 0.50	16.3	29	44
19400075	40 x 0.75	17.9	39.5	67.2
19400100	40 x 1	22.9	51	70.9
20420034	42 x 0.34	15.1	20.5	37.1
19420050	42 x 0.50	17.1	29.8	48.7
19420075	42 x 0.75	18.2	44	69.3
19420100	42 x 1	23.2	53.3	76.9
19420150	42 x 1.50	25.5	78.2	114
20440025	44 x 0.25	14.3	16.5	24.9
19440050	44 x 0.50	17.6	31.1	50.5
20480014	48 x 0.14	10.6	13	18.3

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
20480025	48 x 0.25	14.5	17.4	27.4
20480034	48 x 0.34	15.5	22.8	43
19480050	48 x 0.50	18	33	53.2
20500014	50 x 0.14	11.3	14.9	19.6
20500025	50 x 0.25	14	18	29.9
20500034	50 x 0.34	15.9	23.6	43.9
19500050	50 x 0.50	18.4	34	55.2
19500075	50 x 0.75	19.5	48	80.7
19500100	50 x 1	25.7	62.5	99.5
19500150	50 x 1.50	27.4	88.5	133
20520014	52 x 0.14	12.1	15	20
20520025	52 x 0.25	14.8	18.6	31
19520050	52 x 0.50	18.4	35.5	56.6
20560014	56 x 0.14	12.4	15.3	21.2
20560025	56 x 0.25	15.2	20.1	34.8
19560050	56 x 0.50	19.4	37.7	61.8
20610014	61 x 0.14	12.5	15.7	24.3
20610025	61 x 0.25	15.2	22	39.3
20610034	61 x 0.34	16.9	29.9	51
19610050	61 x 0.50	19.8	41.5	65.9
19610075	61 x 0.75	21.5	55.5	94.2
19610100	61 x 1	27.3	71	110
19610150	61 x 1.50	29.1	112	165
20800014	80 x 0.14	16.4	19.5	48.6
20800025	80 x 0.25	20	29.2	55.8
20800034	80 x 0.34	21.2	37	66.9
19800050	80 x 0.50	23	51.5	86.4
19800075	80 x 0.75	27.4	71.5	119
19800100	80 x 1	32.7	94	148.5
19800150	80 x 1.50	34.8	136	208.5
201000014	100 x 0.14	17.9	25.1	57.8
201000025	100 x 0.25	22.8	37.1	71
201000034	100 x 0.34	26.5	41.5	83.6
191000050	100 x 0.50	25.9	63	105
191000075	100 x 0.75	31.2	91	146.3
191000100	100 x 1	37.1	118	183
191000150	100 x 1.50	39.6	169	257