

Datenleitungen / Data Cables

LIICY

Nach DIN 47100/OZ
According to DIN 47100/OZ



Verwendung:

Als Anschluss- und Verbindungsleitung in der Steuer-, Regel-, Mess- und Signaltechnik sowie in der Datenverarbeitung und Bürotechnik für eine störfreie Datenübertragung. Die dichte CU-Abschirmung bietet optimalen Schutz gegen äußere elektrische Beeinflussungen. Für die Verlegung in trockenen und feuchten Räumen. Geeignet für die feste Verlegung und flexible Anwendung bei freier Bewegung ohne Zugbeanspruchung und ohne zwangsweise Führung. Gute chemische Beständigkeit, weitgehend ölbeständig.

Aufbau:

- feindrähtige Litzen aus blanken CU-Drähten
- Litzenaufbau nach VDE 0295, Klasse 5
- Aderisolation aus PVC
- für Querschnitte von 0,14 bis 0,75mm² gilt folgende Aderkennzeichnung: farbig nach DIN47100
- für Querschnitte von 1,0 bis 10,0mm² gilt folgende Aderkennzeichnung: schwarze Adern mit fortlaufendem Zahlendruck
- Adern in Lagen verseilt
- Folienbandierung
- Gesamtabschirmung aus verzinnnten Kupferdrähten
- Außenmantel aus PVC grau, RAL 7001 oder RAL 7032

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.

Construction:

- fine strands of bare copper conductor
- stranding acc. to VDE 0295 class 5
- PVC core insulation
- colored 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

Technische Daten:

Leiter Werkstoff	Kupfer, blank
Leiterklasse	Klasse 5 nach DIN VDE 0295, bzw. IEC 60228
Aderisolationwerkstoff	PVC
Aderkennung	0,14 - 0,75 mm ² Querschnitt : farbig nach DIN 47100 1,0 - 10 mm ² Querschnitt: schwarze Adern mit fortlaufendem Zahlenaufdruck
Verseilung	Adern in Lagen verseilt
Außenmantelwerkstoff	PVC
Mantelfarbe	Grau (RAL 7001 oder RAL 7032)
Nennspannung [V]	300 / 500
Prüfspannung [V]	1200 / 1500
Leiterwiderstand	Nach DIN VDE 0295, bzw. IEC 60228
Isolationswiderstand	20 MΩ x km
Strombelastbarkeit	DIN VDE (s. technischer Anhang)
kleinster Biegeradius fest [xd]	bis 12mm : 5 x d bis 20mm : 7.5 x d > 20mm : 10 x d
kleinster Biegeradius bewegt [xd]	bis 12mm : 10 x d bis 20mm : 15 x d > 20mm : 20 x d
Betriebstemp. fest min/max [C]	-30°C bis +80°C
Betriebstemp. bew. min/mac [C]	-15°C bis +70°C
Temperatur am Leiter max.	
Brandverhalten	IEC 60332-1: selbstverlöschend und flammwidrig
Normen	VDE 0812

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 mm ² coloured cores acc. to DIN 47100 1,0 to 10 mm ² : black cores with continuous figure imprint in white
stranding	Cores twisted into layers
outer sheath	PVC
sheath colour	Grey (RAL 7001 or RAL 7032)
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 : 5 x d bis 20mm : 7.5 x d > 20mm : 10
min. bending radius moved [xd]	bis 12mm : 10 x d bis 20mm : 15 x d > 20mm : 20
working temp fixed min/max [C]	-30°C up to +80°C
working temp moved min/mac [C]	-15°C up to +70°C
temp at conductor max.	
burning behaviour	IEC 60332-1: self-extinguishing and flame-retardant
Approvals	VDE 0812

Kabel / Cable

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
20010014	1 x 0.14	3.60	0.80	1.70
20010025	1 x 0.25	3.10	0.80	1.40
20010034	1 x 0.34	3.20	1.00	1.60
19010050	1 x 0.50	3.60	1.40	2.10
19010075	1 x 0.75	3.80	1.80	2.70
19010100	1 x 1	4.90	2.30	4.40
19010150	1 x 1.50	5.10	2.90	4.90
19010250	1 x 2.50	5.90	6.50	9.50
20020014	2 x 0.14	3.90	1.10	2.10
20020025	2 x 0.25	4.50	1.50	2.80
20020034	2 x 0.34	5.00	2.00	3.10
19020050	2 x 0.50	5.40	2.60	3.60
19020075	2 x 0.75	5.60	3.50	6.20
19020100	2 x 1	6.40	5.50	8.40
19020150	2 x 1.50	7.20	6.50	9.70
19020250	2 x 2.50	10.10	9.80	14.80
19020400	2 x 4	11.70	13.50	19.40
19020600	2 x 6	13.10	17.50	25.10
19021000	2 x 10	15.50	26.50	36.00
19021600	2 x 16	17.00	38.50	49.00
20030014	3 x 0.14	4.00	1.20	4.00
20030025	3 x 0.25	4.70	2.00	3.40
20030034	3 x 0.34	5.10	2.40	3.80
19030050	3 x 0.50	5.80	3.50	4.50
19030075	3 x 0.75	6.30	4.80	7.30
19030100	3 x 1	6.70	6.60	10.00
19030150	3 x 1.50	7.70	9.00	12.50
19030250	3 x 2.50	10.60	12.40	18.80
19030400	3 x 4	12.40	17.80	25.00
19030600	3 x 6	13.90	24.00	28.50
19031000	3 x 10	16.50	37.00	48.50
20040014	4 x 0.14	4.30	1.40	4.30
20040025	4 x 0.25	5.00	2.20	4.00
20040034	4 x 0.34	5.60	2.50	4.60
19040050	4 x 0.50	6.20	4.50	5.40
19040075	4 x 0.75	7.00	5.60	9.50

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
19040100	4 x 1	7.20	8.00	12.00
19040150	4 x 1.50	8.20	11.00	14.50
19040250	4 x 2.50	11.60	15.00	23.60
19040400	4 x 4	13.50	22.00	30.20
19040600	4 x 6	15.20	30.50	41.20
19041000	4 x 10	18.10	48.50	62.00
20050014	5 x 0.14	4.70	1.60	4.70
20050025	5 x 0.25	5.50	2.70	4.70
20050034	5 x 0.34	6.00	3.00	5.40
19050050	5 x 0.50	6.70	5.30	6.70
19050075	5 x 0.75	7.40	7.00	12.00
19050100	5 x 1	7.80	9.00	13.60
19050150	5 x 1.50	9.00	12.70	17.30
19050250	5 x 2.50	12.60	18.00	27.00
19050400	5 x 4	14.80	27.00	37.00
19050600	5 x 6	16.70	37.00	50.50
19051000	5 x 10	20.00	59.50	79.60
20060014	6 x 0.14	5.00	1.90	5.20
20060025	6 x 0.25	6.00	3.00	5.90
20060034	6 x 0.34	6.60	4.30	6.70
19060050	6 x 0.50	7.30	6.80	8.10
19060075	6 x 0.75	8.00	8.50	14.50
19060250	6 x 2.50	13.70	21.00	30.50
19060400	6 x 4	16.10	31.50	42.40
19060600	6 x 6	18.20	44.00	59.70
19061000	6 x 10	22.80	72.00	90.50
20070014	7 x 0.14	5.10	2.00	5.40
20070025	7 x 0.25	6.00	3.50	6.10
20070034	7 x 0.34	6.60	4.60	7.00
19070050	7 x 0.50	7.40	7.00	8.40
19070075	7 x 0.75	8.30	9.80	15.80
19070100	7 x 1	8.50	12.00	16.20
19070150	7 x 1.50	10.00	16.20	22.50
19070250	7 x 2.50	13.70	23.50	34.00
19070400	7 x 4	16.10	35.50	47.30
19070600	7 x 6	18.20	50.50	67.10

Kontakt:

Kabel / Cable

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
19071000	7 x 10	22.80	82.00	106.20
20080014	8 x 0.14	5.40	2.30	5.80
20080025	8 x 0.25	6.50	4.00	6.60
20080034	8 x 0.34	7.00	5.00	7.60
19080050	8 x 0.50	8.00	8.50	11.10
19080075	8 x 0.75	8.60	11.60	16.30
19080100	8 x 1	10.50	13.00	20.30
19080150	8 x 1.50	11.50	17.50	27.00
19080250	8 x 2.50	14.80	26.20	38.22
20100014	10 x 0.14	6.00	2.80	5.20
20100025	10 x 0.25	7.40	4.20	8.00
20100034	10 x 0.34	8.10	7.30	10.40
19100050	10 x 0.50	9.20	10.00	13.40
19100075	10 x 0.75	11.00	13.10	19.50
19100100	10 x 1	11.10	15.50	23.10
19100150	10 x 1.50	12.90	21.00	33.80
19100250	10 x 2.50	18.30	33.50	51.20
20120014	12 x 0.14	6.20	3.00	8.10
20120025	12 x 0.25	7.60	5.60	9.10
20120034	12 x 0.34	8.40	7.60	12.80
19120050	12 x 0.50	9.50	11.00	15.60
19120075	12 x 0.75	11.20	14.80	23.20
19120100	12 x 1	11.60	18.20	26.50
19120150	12 x 1.50	13.20	25.10	36.50
19120250	12 x 2.50	18.50	38.60	58.50
20140014	14 x 0.14	6.50	3.30	6.50
20140025	14 x 0.25	8.00	5.90	12.00
20140034	14 x 0.34	8.80	8.60	14.10
19140050	14 x 0.50	11.70	12.50	16.90
19140075	14 x 0.75	12.00	16.70	26.00
19140100	14 x 1	12.40	20.50	29.20
19140150	14 x 1.50	14.10	28.00	41.00
20150014	15 x 0.14	6.90	3.90	7.00
20150025	15 x 0.25	8.20	6.10	12.70
20150034	15 x 0.34	9.00	8.80	15.20
19150050	15 x 0.50	12.00	13.00	18.00

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
20160014	16 x 0.14	7.00	4.30	9.70
20160025	16 x 0.25	8.50	6.70	13.50
20160034	16 x 0.34	9.20	9.20	15.50
19160050	16 x 0.50	12.30	14.00	19.50
19160075	16 x 0.75	12.50	18.30	29.60
19160100	16 x 1	13.10	22.00	33.10
19160150	16 x 1.50	15.00	31.50	46.50
20180014	18 x 0.14	7.30	5.00	7.90
20180025	18 x 0.25	8.80	8.00	15.00
20180034	18 x 0.34	10.10	9.90	16.60
19180050	18 x 0.50	11.50	14.20	21.50
19180075	18 x 0.75	12.90	20.50	31.50
19180100	18 x 1	13.60	24.50	36.00
19180150	18 x 1.50	16.00	34.50	51.30
20200014	20 x 0.14	7.80	5.70	11.60
20200025	20 x 0.25	9.60	10.00	15.70
20200034	20 x 0.34	10.50	12.40	19.50
19200050	20 x 0.50	12.20	16.50	23.40
19200075	20 x 0.75	14.90	22.00	36.40
19200100	20 x 1	15.90	27.00	38.80
19200150	20 x 1.50	17.00	37.50	63.50
20210014	21 x 0.14	7.80	5.90	9.60
20210025	21 x 0.25	9.40	10.40	16.30
20210034	21 x 0.34	10.80	13.00	20.20
19210050	21 x 0.50	12.80	17.10	25.10
20240014	24 x 0.14	8.50	7.00	10.60
20240025	24 x 0.25	10.40	11.50	16.10
20240034	24 x 0.34	12.00	14.00	23.40
19240050	24 x 0.50	13.10	23.60	28.80
19240075	24 x 0.75	15.20	26.60	39.80
19240100	24 x 1	17.50	32.00	45.10
19240150	24 x 1.50	19.70	44.50	70.50
19250100	25 x 1	17.50	33.00	47.50
20250050	25 x 0.50	13.40	25.00	31.30
20250075	25 x 0.75	16.60	28.08	40.40
19250150	25 x 1.50	20.10	46.50	72.00

Kontakt:

Kabel / Cable

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
20270014	27 x 0.14	9.10	8.40	12.20
20270025	27 x 0.25	11.00	12.30	17.20
20270034	27 x 0.34	12.20	15.00	24.60
19270050	27 x 0.50	14.20	20.60	32.10
20300014	30 x 0.14	9.30	9.00	12.90
20300025	30 x 0.25	11.20	13.00	18.70
20300034	30 x 0.34	12.80	15.60	28.20
19300050	30 x 0.50	14.70	22.50	34.80
19300075	30 x 0.75	16.40	31.50	49.00
19300100	30 x 1	20.60	39.50	55.40
19300150	30 x 1.50	20.70	55.50	77.60
20320014	32 x 0.14	9.60	9.60	13.80
20320025	32 x 0.25	11.40	13.50	20.10
20320034	32 x 0.34	13.30	16.50	29.80
19320050	32 x 0.50	15.20	23.60	37.30
19320075	32 x 0.75	16.70	33.00	52.00
19340100	34 x 1	21.50	44.00	62.90
19340150	34 x 1.50	21.50	61.20	89.60
20360014	36 x 0.14	9.60	11.40	14.80
20360025	36 x 0.25	11.70	14.50	21.70
20360034	36 x 0.34	13.80	18.30	32.20
19360050	36 x 0.50	15.70	26.00	40.50
19360075	36 x 0.75	17.20	37.00	60.60
19360150	36 x 1.50	23.30	63.00	98.50
20400014	40 x 0.14	10.30	12.30	16.50
20400034	40 x 0.34	14.20	19.80	35.20
19400050	40 x 0.50	16.30	29.00	44.00
19400075	40 x 0.75	17.90	39.50	67.20
19400100	40 x 1	22.90	51.00	70.90
20420034	42 x 0.34	15.10	20.50	37.10
19420050	42 x 0.50	17.10	29.80	48.70
19420075	42 x 0.75	18.20	44.00	69.30
19420100	42 x 1	23.20	53.30	76.90
19420150	42 x 1.50	25.50	78.20	114.00
20440025	44 x 0.25	14.30	16.50	24.90
19440050	44 x 0.50	17.60	31.10	50.50

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
20480014	48 x 0.14	10.60	13.00	18.30
20480025	48 x 0.25	14.50	17.40	27.40
20480034	48 x 0.34	15.50	22.80	43.00
19480050	48 x 0.50	18.00	33.00	53.20
20500014	50 x 0.14	11.30	14.90	19.60
20500025	50 x 0.25	14.00	18.00	29.90
20500034	50 x 0.34	15.90	23.60	43.90
19500050	50 x 0.50	18.40	34.00	55.20
19500075	50 x 0.75	19.50	48.00	80.70
19500100	50 x 1	25.70	62.50	99.50
19500150	50 x 1.50	27.40	88.50	133.00
20520014	52 x 0.14	12.10	15.00	20.00
20520025	52 x 0.25	14.80	18.60	31.00
19520050	52 x 0.50	18.40	35.50	56.60
20560014	56 x 0.14	12.40	15.30	21.20
20560025	56 x 0.25	15.20	20.10	34.80
19560050	56 x 0.50	19.40	37.70	61.80
20610014	61 x 0.14	12.50	15.70	24.30
20610025	61 x 0.25	15.20	22.00	39.30
20610034	61 x 0.34	16.90	29.90	51.00
19610050	61 x 0.50	19.80	41.50	65.90
19610075	61 x 0.75	21.50	55.50	94.20
19610100	61 x 1	27.30	71.00	110.00
19610150	61 x 1.50	29.10	112.00	165.00
20800014	80 x 0.14	16.40	19.50	48.60
20800025	80 x 0.25	20.00	29.20	55.80
20800034	80 x 0.34	21.20	37.00	66.90
19800050	80 x 0.50	23.00	51.50	86.40
19800075	80 x 0.75	27.40	71.50	119.00
19800100	80 x 1	32.70	94.00	148.50
19800150	80 x 1.50	34.80	136.00	208.50
201000014	100 x 0.14	17.90	25.10	57.80
201000025	100 x 0.25	22.80	37.10	71.00
201000034	100 x 0.34	26.50	41.50	83.60
191000050	100 x 0.50	25.90	63.00	105.00
191000075	100 x 0.75	31.20	91.00	146.30

Kontakt:

Kabel / Cable

Art Nr. Part No.	Aderm x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
191000100	100 x 1	37.10	118.00	183.00
191000150	100 x 1.50	39.60	169.00	257.00

Kontakt: