

# DATA CABLES

## ELECTRICAL CHARACTERISTICS/STRANDING

### Data cables – electrical characteristics

Cross-section in mm <sup>2</sup>	0,14	0,25	0,34	0,50	0,75	1,00	1,50
max. conductor resistance at 20 °C in Ω/ km acc. to DIN VDE 0812	148,0	79,9	58,0	38,9	26,0	19,5	13,3
Capacitance core/core approx. nF/km for...							
...PVC	120	120	130	140	150	170	190
...TPE-E	100	100	120	120	150	150	170
...PE	60	60	80	90	90	100	110
...SABIX® 336	70	70	70	80	90	100	110

### Screened data cables – electrical characteristics

Cross-section in mm <sup>2</sup>	0,14	0,25	0,34	0,50	0,75	1,00	1,50
max. conductor resistance at 20 °C in Ω/ km acc. to DIN VDE 0812	148,0	79,9	58,0	38,9	26,0	19,5	13,3
Capacitance core/core approx. nF/km for...							
...PVC	50	50	55	55	60	60	60
...TPE-E	40	50	50	50	60	70	70
...PE	20	20	20	20	20	20	20
...SABIX® 336	30	30	30	30	30	30	35

The mentioned values are approximate values. Capacitance is dependent on cable constructions, screenings and wall thickness of the insulation and, therefore, can be different from above mentioned data.

### Data cables – construction of strands

For example, item groups 0305, 0315, 0345, 5305, 5315, 5345, 6305, 6315, 6345, ...

nominal cross section	no. of wires x diameter of wires
0,14 mm <sup>2</sup>	≈ 18 x 0,11 mm Ø
0,25 mm <sup>2</sup>	≈ 14 x 0,16 mm Ø
0,34 mm <sup>2</sup>	≈ 7 x 0,26 mm Ø
0,50 mm <sup>2</sup>	≈ 15 x 0,21 mm Ø
0,75 mm <sup>2</sup>	≈ 23 x 0,21 mm Ø
1,00 mm <sup>2</sup>	≈ 30 x 0,21 mm Ø
1,50 mm <sup>2</sup>	≈ 28 x 0,26 mm Ø