



### Construction:

Conductor	: flexible copper wires, plain; IEC 60228 Class 5, DIN EN 60228 Class 5.
Insulation	: PVC compound , TI2.
Core identification	: according to DIN EN 50334 black cores with white numerals with green/yellow from 3 cores. JZ - 1 core green/yellow, other cores black with numbers. OZ - every core black with numbers.
Lay-up	: cores laid up in layers of optimum pitch.
Separator	: polyester tape.
Screen	: braid of tinned copper wires, 85% coverage.
Outer sheath	: PVC compound, TM2.
Sheath colour	: RAL 7001, Grey (to be agreed upon the shade of grey).

### Technical data and tests:

Standard	: HD 21.13 S1, DIN VDE 0281-13; VDE 0245-102.
Insulation resistance	: min. 20 M $\Omega$ /km.
Rated voltage U <sub>0</sub> /U	: 300 / 500 V.
Test voltage (50 Hz)	: 2000 V.
Temperature range	: fixed : - 40° C ~ + 70° C; mobile: - 5° C ~ + 70° C.
Min. bending radius	: fixed : 4 x D; mobile: 10 x D.

\* Upon request this cable can be produced having a rated voltage of 0.6/1 kV.

\* Upon request this cable can be made with 65% braid of tinned copper wires.

\* Core identification for coloured cores is according to HD 308 S2.

### Applications:

These screened flexible and reduced diameter cables are used in mechanical engineering for instrumentation and control equipment, for tooling machinery, production lines, and flexible applications for free movement without tensile load. The screen protects against external pulses and ensures an interference-free transmission. These cables should not be used for outdoor or underground installation.



## DIMENSIONS

No. of Cores x Cross Section mm <sup>2</sup>	Approx. Outer Diameter mm	Copper Weight kg/km	Approx. Cable Weight kg/km
2x0,50	5,2	25	35
3x0,50	5,5	30	45
4x0,50	6,2	35	60
5x0,50	6,6	40	70
7x0,50	7,9	55	100
12x0,50	9,4	85	135
18x0,50	10,9	120	190
25x0,50	13,2	160	255
2x0,75	5,5	30	50
3x0,75	6,1	40	60
4x0,75	6,5	45	70
5x0,75	7,2	55	85
7x0,75	8,3	70	120
12x0,75	10,0	115	175
18x0,75	11,7	160	240
25x0,75	14,5	210	340
2x1	6,0	35	60
3x1	6,4	45	75
4x1	7,4	55	90
5x1	7,7	70	120
7x1	8,9	85	160
12x1	11,0	145	265
18x1	13,0	210	330
25x1	15,8	295	405
2x1,5	7,1	50	85
3x1,5	7,6	65	100
4x1,5	8,2	80	120
5x1,5	9,1	95	150
7x1,5	10,5	130	205
12x1,5	12,8	215	300
18x1,5	15,5	300	435
25x1,5	18,2	400	570
2x2,5	8,1	75	110
3x2,5	8,8	95	140
4x2,5	9,5	110	175
5x2,5	10,7	130	210
7x2,5	11,7	185	285
12x2,5	15,8	305	450
18x2,5	19,2	490	720
25x2,5	22,2	625	900
3G4	10,8	155	255
4G4	11,8	220	305
3G6	13,3	210	310
4G6	13,8	305	435
3G10	15,8	340	480
4G10	17,8	475	660
3G16	20,1	610	825
4G16	22,1	795	1025