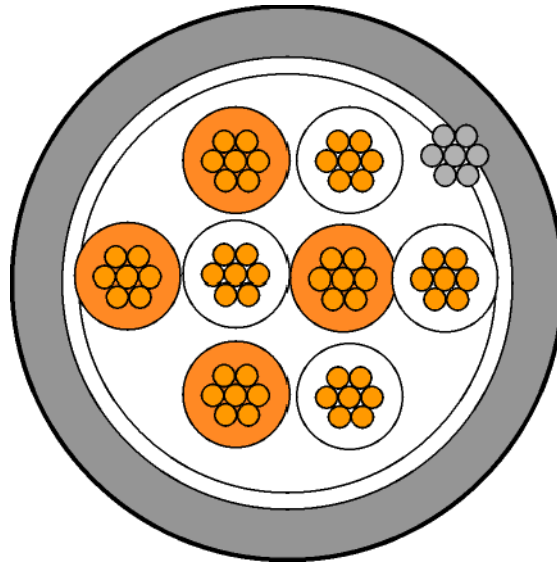




NOMAK[®]

Symmetrical data cable for industrial control equipment



Application

These symmetrical data transmission cables are used in control and supervision centre for industrial sites. They are suitable for fixed installation inside housings.

Flame Resistance

Oxygen Index LOI acc. to ASTM-D-2863
Smoke emission acc. to ASTM-D-2843
HCL emission acc. to IEC 754-1
IEC 60332-1

no limit
90 %
> 25 %

Construction

Conductor	Copper wire, bare 0.5 mm ² (7x 0.3 mm Ø)
Insulation	PVC, 1.5 mm Ø
Conductor identification	a-conductor orange; b-conductor white (with number printing)
Stranding	2 conductors to pair
Stranding to core	(0+4)
Overall shielding	Laminated AL-foil + copper drain wire 0.5 mm ²
Outer sheath	PVC, grey

Mechanical Properties

Operating temperature	- 30 °C to + 70 °C
Min. Installation temperature	- 5 °C



NOMAK[®]

Electrical Properties

at 20°C

Loop resistance	81 Ω/km
Insulation resistance (at 500 V, 1 min.)	100 MΩ*km
Capacitance at 800 Hz (2x2 and 4x2)	90 nF/km 85 nF/km
Max. operating voltage	75 V
Relative velocity factor NVP	0.60
Impedance (at 10 MHz)	100 Ω +/- 10 %
Frequency	attenuation
[kHz]	[dB/100 m]
9.6	0.3
19.2	0.5
64	0.7
100	0.9
200	1.5
1000	2.9

Technical Data

Part no. SAP	Type	Dimension	Outer diameter mm	Standard length m	weight kg/km	Copper content
1003555-01000DO	NOMAK	2x2x0.5	6.7	1000	52	24
1003555-00200DW	NOMAK	2x2x0.5	6.7	200	52	24
1003575-01000DO	NOMAK	4x2x0.5	7.7	1000	82	42
1003575-00200DW	NOMAK	4x2x0.5	7.7	200	82	42
1005542-01000DX	NOMAK	8x2x0.5	11.5	1000	151	79
1005543-01000DX	NOMAK	12x2x0.5	12.3	1000	203	116
1005544-01000DX	NOMAK	24x2x0.5	17.8	1000	393	227
1005545-01000DX	NOMAK	48x2x0.5	23.5	1000	745	450