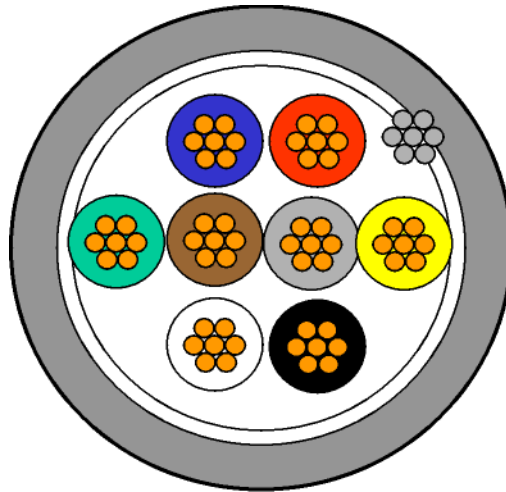




NOMAK[®]-E

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
IEC 60332-1

no limit
90 %

Construction

Conductor	Stranded tinned copper 7x0,29 mm	
Insulation	PVC (Y)	
Conductor identification	a-conductor	b-conductor
Pair 1	Blue	Red
Pair 2	Grey	Yellow
Pair 3	Green	Brown
Pair 4	White	Black
Stranding	2 conductors to pair	
Stranding to core	(0+4) each 4-pair bundle with numbered plastic binder	
Overall shielding	Laminated AL-foil + tinned copper drain wire 0.5 mm ²	
Outer sheath	PVC (Y), grey (RAL 7035)	

Mechanical Properties

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



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Electrical Properties

at 20°C

Loop resistance	81 Ω/km
Insulation resistance (at 500 V, 1 min.)	100 MΩ*km
Capacitance at 800 Hz for 2 and 4 pairs	85 nF/km 90 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.	Type	Dimension	Outer diameter mm	Standard length m	weight kg/km	Copper content
1003576	NOMAK-E	2x2x0.5	7.0	1000	55	24
1003577	NOMAK-E	4x2x0.5	8.5	1000	85	42
1005546-01000DX	NOMAK-E	8x2x0.5	11.5	1000	151	79
1005551-01000DX	NOMAK-E	12x2x0.5	12.3	1000	203	116
1005547-01000DX	NOMAK-E	24x2x0.5	17.8	1000	394	227
1006473-01000DX	NOMAK-E	48x2x0.5	23.5	1000	747	450