

FLAMEX® - EN 50306

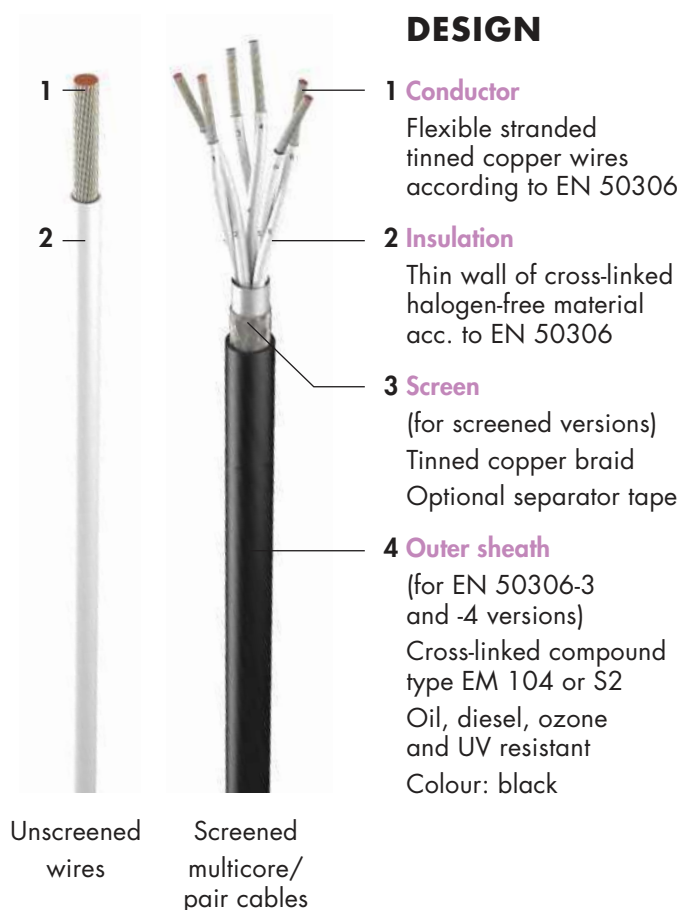
FLEXIBLE THIN WALL INSULATED WIRES AND CABLES

APPLICATION

Strictly halogen-free, these control wires and cables combine the advantages of small size, lightweight, high chemical resistance and high mechanical properties. They are recommended for installation in railway vehicles (locomotives, trains, trolley busses...).

A 125°C conductor temperature is allowed for a 20,000 hours cumulative working time.

Conductor temperature: -40°C/+105°C/+125°C



COLOUR CODES

Insulation:
white, numbered 1 to n

BENDING RADIUS

Dynamic use:
10 x outer diameter
Static use:
5 x outer diameter

FIRE SAFETY STANDARDS

FLAMEX® EN 50306 cables are conform to EN 45545-2.

On top of that the cables are designed to withstand fire tests according to NFPA 130, GOST-R 31565, BS 6853-1A, NF F 16101-A1, DIN 5510-2, UNI CEI 11170-3

GUIDE TO USE

Permissible current capacities and cabling rules given in EN 50355 and EN 50343 standards.

MARKING

Marking of FLAMEX® cables is according to EN 50306 (see details hereafter)



Operating temp
- 40°C to
+105°C



Good chemical
Resistance
(oil, fuel, acid...)



Flame and Fire
retardant
IEC 60332-1-2
IEC 60332-3
EN 50305-9.1
NF C 32070



Low smoke
emission
IEC 61034-2



Low corrosivity
of combustion
gases
IEC 60754-2
EN 50267-2-2



Halogen-free
IEC 60754-1
EN 50267-2-1
EN 60684-2



Low toxicity
EN 50305-9.2



Flexible
Class 5



Screened
version

FLAMEX® - EN 50306-2 CATEGORY M

Unscreened and unsheathed single core cables
Thin wall insulation

NEXANS REFERENCE		NUMBER OF CORES X CROSS-SECTION [mm²]	CONDUCTOR		INSULATION		MAX. COND. RESISTANCE [Ohm/km]	APPROX. WEIGHT [kg/km]
Silane technology	E-beam technology		Construction n x diam. [mm]	Max. diameter [mm]	Min. diameter [mm]	Max. diameter [mm]		
2PG198	41300227	1 x 0.5	19 x 0.18	0.95	1.15	1.45	40.1	6.0
2PG199	41300327	1 x 0.75	19 x 0.23	1.15	1.35	1.65	26.7	8.5
2PG200	41300427	1 x 1.0	19 x 0.25	1.30	1.45	1.80	20.0	10.5
2PF779	41300527	1 x 1.5	37 x 0.23*	1.65	1.95	2.30	13.7	16.0
2PG201	41300627	1 x 2.5	37 x 0.30*	2.15	2.50	2.85	8.21	26.5

* These cables may be supplied in 19 strands instead of 37 as allowed by the EN 50306-2 standard

Marking

EN 50306-2 - 300 V - 1 x cross-section - M - week/year batch number

FLAMEX® - EN 50306-3

FLEXIBLE THIN WALL INSULATED WIRES AND CABLES

FLAMEX® - EN 50306-3 CATEGORY MM - S

Single core and multicore cables (pairs, triples and quads) screened and thin wall sheathed
Thin wall insulation/Thin wall sheath (minimum 0.20 mm) type S2

Base core

Each insulated single core is conform to the requirements given in EN 50306-2



PRODUCT REFERENCES

NEXANS REFERENCE	NUMBER OF CORES X CROSS-SECTION [mm²]	OVERALL DIAMETER		APPROX. WEIGHT [kg/km]
		Minimum [mm]	Maximum [mm]	
2PH184	1 x 0.50	2.30	2.80	14
2PG960	2 x 0.50	3.50	4.30	25
2PG963	3 x 0.50	3.70	4.50	33
2PH189	4 x 0.50	4.00	5.00	43
2PH185	1 x 0.75	2.50	3.00	17
2PG961	2 x 0.75	3.90	4.70	31
2PG964	3 x 0.75	4.00	5.00	43
2PH190	4 x 0.75	4.50	5.50	56
2PH186	1 x 1.00	2.70	3.20	20
2PG962	2 x 1.00	4.20	5.20	37
2PG965	3 x 1.00	4.50	5.50	52
2PG966	4 x 1.00	5.00	6.00	65
2PH187	1 x 1.50	3.10	3.60	28
2PF780	2 x 1.50	5.10	6.10	55
2PH191	3 x 1.50	5.40	6.40	75
2PH192	4 x 1.50	6.00	7.00	100
2PH188	1 x 2.50	3.60	4.40	43
2PH193	2 x 2.50	6.40	7.40	87
2PH194	3 x 2.50	6.80	7.80	124
2PH195	4 x 2.50	7.50	8.50	158

Other constructions on request

Marking

Cores: by printed numbers

External sheath: EN 50306-3 - 300 V - number of cores x cross-section - MM-S-90 - week/year batch number