ÖLFLEX® 120 H / 120 CH

The flexible halogen-free Control Cable

CE RoHS

Application
- Environmentally friendly, halogen-free Control Cable
- Especially for electrical equipment and installations in industrial environments, dry or damp interiors
- Suitable for fixed installation under medium mechanical load conditions as well as for flexing application at free, non-continuously recurring movement without tensile load or compulsory guidance
- Outdoor use with UV-protection only, considering the temperature range
- Not for direct burial

Areas of application:
- Public facilities
- Airport, Railway Station
- Plant engineering and construction
- Electrical machines and devices
- Air conditioning systems
- Data processing systems
- Particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards

Advantage
- Due to the halogen-free materials, the formation of toxic dioxins and furanes in the case of fire is considerably reduced
- The newly developed, non cross-linked and halogen-free material is completely recyclable

In combination:
- Halogen free acc.to IEC 60754-1 (Amount of halogen acid gas)
- Corrosiveness of combustion gases acc. to IEC 60754-2 (Degree of acidity)
- Low toxicity of smoke gases NES 713 Part 3
- Low smoke density acc. to IEC 61034
- Asbestos-, CFC-, lead- and silicone-free
- Hydrolysis-resistant
- Easier to handle whilst laying and connecting
- Cold flexible up to -25°C.

Worth knowing
Accessories
- SKINTOP® and SKINDICHT® cable glands
- SILVYN® Cable Conduit Systems
- FLEXIMARK® Cable Marking
- Cable processing products see "Cable Accessories"

Comparable products:
- ÖLFLEX® CLASSIC 110 H
  ÖLFLEX® CLASSIC 110 CH
- ÖLFLEX® CLASSIC 130 H
  ÖLFLEX® CLASSIC 135 CH
- Power chain suitable halogen-free cables:
  ÖLFLEX® FD 820 H/CH
  ÖLFLEX® FD 855 P/CP
  ÖLFLEX® SERVO FD 785 P/CP
- Halogen-free installation cables:
  NHXMH
  Halogen-free single cores:
  H05 / H07Z-K
- For further cables, see: Selection Table A4

Technical notes:
- Flame retardant acc. to IEC 60332-1-2 (Flame spread on single cable or wire)
- Fire load values are determined acc. to DIN 51900 and available on request

Cable Make-up
ÖLFLEX® 120 H
- Fine strands of bare copper wires
- Halogen-free, non cross-linked polymer core insulation
- Black cores with white numbers
- Cores twisted in layers
- Halogen-free, non cross-linked polymer core insulation
- Sheath colour RAL 7001 (silver grey)

ÖLFLEX® 120 CH
As ÖLFLEX® 120 H, additionally:
- Halogen-free inner sheath
- Screen braiding made of tinned copper wires

Technical Data

- Core identification code: Black cores with white numbers acc. to VDE 0293
- Based on HD 21.13 S1; VDE 0281 Part 13
- Specific insulation resistance > 10 GOhm x cm
- Conductor stranding: Fine wire acc. to: VDE 0295 Kl.5, IEC 60228 Cl.5
- Minimum bending radius
  ÖLFLEX® 120 H
  Flexing: 15 x cable diameter
  Static: 4 x cable diameter
  ÖLFLEX® 120 CH
  Flexing: 20 x cable diameter
  Static: 6 x cable diameter
- Rated voltage U_o/U=300/500 V
- Test voltage 4000 V
- Protective conductor: G = with protective conductor, X = without protective conductor
- Range of temperature
  Flexing: -25 °C to +70 °C
  Fixed installation: -40 °C to +70 °C

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper weight kg/km	Weight kg/km approx.
	ÖLFLEX® 120 H			
1021802	2 X 0.75	5,4	14,4	42
1021103	3 G 0.75	5,7	21,6	51
1021803	3 X 0.75	5,7	21,6	51
1021104	4 G 0.75	6,2	28,8	62
1021804	4 X 0.75	6,2	28,8	62
1021105	5 G 0.75	6,7	36,0	74
1021805	5 X 0.75	6,7	36,0	74
1021107	7 G 0.75	7,3	50,0	95
1021807	7 X 0.75	7,3	50,0	95
1021109	9 G 0.75	9,4	65,0	128
1021112	12 G 0.75	9,9	86,0	161
1021115	15 G 0.75	10,9	108,0	197
1021118	18 G 0.75	11,7	130,0	230

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Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper weight kg/km	Weight kg/km approx.
1021125	25 G 0.75	13,8	180,0	319
1021134	34 G 0.75	15,9	245,0	424
1021141	41 G 0.75	17,4	296,0	510
1021852	2 X 1.0	5,7	19,2	49
1021203	3 G 1.0	6,0	28,8	60
1021853	3 X 1.0	6,0	28,8	60
1021204	4 G 1.0	6,5	38,4	74
1021854	4 X 1.0	6,5	38,4	74
1021205	5 G 1.0	7,1	48,0	88
1021855	5 X 1.0	7,1	48,0	88
1021207	7 G 1.0	8,0	67,0	119
1021857	7 X 1.0	8,0	67,0	119
1021212	12 G 1.0	10,2	115,0	195
1021218	18 G 1.0	12,7	173,0	285
1021225	25 G 1.0	14,7	240,0	388
1021241	41 G 1.0	18,8	394,0	629
1021250	50 G 1.0	20,6	480,0	759
1021902	2 X 1.5	6,3	29,0	63
1021303	3 G 1.5	6,7	43,0	79
1021903	3 X 1.5	6,7	43,0	79
1021304	4 G 1.5	7,2	58,0	98
1021904	4 X 1.5	7,2	58,0	98
1021305	5 G 1.5	8,1	72,0	120
1021905	5 X 1.5	8,1	72,0	120
1021307	7 G 1.5	8,9	101,0	158
1021907	7 X 1.5	8,9	101,0	158
1021309	9 G 1.5	11,4	130,0	210
1021310	10 G 1.5	11,6	143,0	230
1021312	12 G 1.5	12,0	173,0	265
1021318	18 G 1.5	14,4	259,0	388
1021321	21 G 1.5	15,7	302,0	447
1021325	25 G 1.5	16,9	360,0	535
1021334	34 G 1.5	19,4	490,0	713
1021341	41 G 1.5	21,3	591,0	856
1021350	50 G 1.5	23,5	720,0	1042
1021952	2 X 2.5	7,5	48,0	95
1021403	3 G 2.5	8,1	72,0	124
1021404	4 G 2.5	8,9	96,0	154
1021405	5 G 2.5	10,0	120,0	189
1021407	7 G 2.5	11,1	168,0	254
1021412	12 G 2.5	14,8	288,0	425
1021504	4 G 4.0	10,8	154,0	236
1021604	4 G 6.0	13,0	230,0	350
1021605	5 G 6.0	14,5	288,0	429
	ÖLFLEX® 120 CH			
1022802	2 X 0.75	7,4	46,0	83
1022103	3 G 0.75	7,9	57,9	97
1022803	3 X 0.75	7,9	57,9	97

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper weight kg/km	Weight kg/km approx.
1022104	4 G 0.75	8,4	64,0	111
1022804	4 X 0.75	8,4	64,0	111
1022105	5 G 0.75	8,9	77,4	126
1022805	5 X 0.75	8,9	77,4	126
1022107	7 G 0.75	9,7	102,0	156
1022807	7 X 0.75	9,7	102,0	156
1022112	12 G 0.75	12,3	177,0	240
1022812	12 X 0.75	12,3	177,0	240
1022118	18 G 0.75	14,5	243,0	345
1022125	25 G 0.75	16,6	307,3	452
1022134	34 G 0.75	18,9	413,0	583
1022141	41 G 0.75	20,6	488,0	707
1022852	2 X 1.0	7,9	56,0	94
1022203	3 G 1.0	8,2	65,3	108
1022853	3 X 1.0	8,2	65,3	108
1022204	4 G 1.0	8,7	78,1	126
1022854	4 X 1.0	8,7	78,1	126
1022205	5 G 1.0	9,5	89,4	149
1022855	5 X 1.0	9,5	89,4	149
1022207	7 G 1.0	10,2	113,3	179
1022857	7 X 1.0	10,2	113,3	179
1022212	12 G 1.0	13,3	188,1	298
1022218	18 G 1.0	15,5	286,0	407
1022225	25 G 1.0	17,5	386,5	529
1022241	41 G 1.0	22,0	578,0	841
1022250	50 G 1.0	23,8	688,0	985
1022902	2 X 1.5	8,5	65,0	113
1022303	3 G 1.5	8,9	83,0	131
1022903	3 X 1.5	8,9	83,0	131
1022304	4 G 1.5	9,6	100,0	158
1022904	4 X 1.5	9,6	100,0	158
1022305	5 G 1.5	10,3	125,0	182
1022905	5 X 1.5	10,3	125,0	182
1022307	7 G 1.5	11,3	196,0	230
1022907	7 X 1.5	11,3	196,0	230
1022312	12 G 1.5	14,8	280,0	383
1022318	18 G 1.5	17,2	389,0	525
1022325	25 G 1.5	20,1	535,0	727
1022334	34 G 1.5	22,8	702,0	941
1022341	41 G 1.5	24,7	844,6	1096
1022350	50 G 1.5	27,1	1.006,00	1339
1022403	3 G 2.5	10,3	146,0	186
1022404	4 G 2.5	11,3	167,0	226
1022405	5 G 2.5	12,6	200,0	275
1022407	7 G 2.5	13,9	288,0	361
1022412	12 G 2.5	17,6	477,3	567
1022504	4 G 4.0	13,4	237,0	337
1022604	4 G 6.0	15,8	318,0	474

G = with Protective Conductor GNYE; X = without Protective Conductor
Copper price basis: EUR 150 / 100 kg
Standard lengths: (50; 100; 500; 1000) m
Packaging size: Coil < 30 kg, above automatically drum
Please specify the desired make-up (e.g. 1 x 500 m drum or 5 x 100 m coils)