



Voltage : 300 / 500 V
Temp. : 70 °C

Application

FLEX-H is a halogen free, flame retardant cables that are mainly used as control and measuring cable in those conveyor belts, machine tools, production lines. These cables are also used in plant installations, steel productions and also in air-conditioning. For flexible or fixed installation, directed without forcing by free movements and also without the tensile stress, for medium mechanical strain. This cable is also well suited for the application in dry, wet and damp environments, as well as for laying on, in and under plaster and also usually used in concrete and masonry but that these not including in direct, laying in shaked or stamped concrete. However it is not suitable for imbedding in solidified or compressed concrete.

Cable Construction

- Fine strand of bare copper conductors according to DIN VDE 0295 class 5 and IEC 60228
- Core insulation of halogen free compound H12 accordance to DIN VDE 0207 part 23
- Black cores with continuous white numbering accordance to DIN VDE 0293
- Green-yellow earth core in the outer layer
- Cores stranded in layers
- Halogen free compound outersheath, HM2 to DIN VDE 0207 part 24, colour grey
- Oil & chemical resistance
- Outersheath self-extinguishing and flame retardant, test method B according to VDE 0472 part 804 and IEC 60332-3 and HD 405.3

Technical Data

Standard : According to DIN VDE 0282 part 9, DIN VDE 0250 part 214
Nominal voltage : U₀/U 300/500 V
Temperature range : Flexing : - 5°C to + 70°C
Fixed laying : - 40°C to + 70°C
Testing voltage : 2 KV, 50 Hz
Conductor resistance : DIN VDE 0295 part 3
Min. bending radius : 15 x cable diameter

* Type OZ : Without earth core (G/Y)

Item No.	No. Of Core x Section mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
129001	OZ 2 x 0.5	5.5	9.6	45
129002	3 x 0.5	5.8	14.4	60
129003	4 x 0.5	6.2	19.0	70
129004	5 x 0.5	6.7	24.0	90
129005	7 x 0.5	8.3	33.6	125
129006	8 x 0.5	9.1	38.0	140
129007	10 x 0.5	10.1	48.0	160
129008	12 x 0.5	10.2	58.0	180
129009	16 x 0.5	11.4	76.0	215
129010	18 x 0.5	12.5	86.0	280
129011	20 x 0.5	13.1	96.0	310
129012	25 x 0.5	15.1	120.0	330
129013	30 x 0.5	15.5	144.0	390
129014	34 x 0.5	17.0	163.0	420
129015	37 x 0.5	17.1	178.0	480
129016	41 x 0.5	18.4	197.0	510
129017	42 x 0.5	18.6	202.0	530
129018	50 x 0.5	20.4	240.0	580
129019	61 x 0.5	22.5	293.0	980
129020	65 x 0.5	22.7	312.0	1020

Item No.	No. Of Core x Section mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
129021	OZ 2 x 0.75	5.9	14.4	60
129022	3 x 0.75	6.5	21.6	75
129023	4 x 0.75	7.1	29.0	100
129024	5 x 0.75	7.5	36.0	125
129025	7 x 0.75	9.3	50.0	170
129026	8 x 0.75	10.1	58.0	190
129027	10 x 0.75	11.2	72.0	215
129028	12 x 0.75	11.5	86.0	250
129029	16 x 0.75	13.3	115.0	330
129030	18 x 0.75	14.1	130.0	360
129031	20 x 0.75	15.1	144.0	500
129032	25 x 0.75	17.3	180.0	698
129033	30 x 0.75	18.1	216.0	720
129034	34 x 0.75	19.4	245.0	770
129035	37 x 0.75	19.5	260.0	795
129036	41 x 0.75	21.2	296.0	800
129037	42 x 0.75	21.3	302.0	840
129038	50 x 0.75	23.5	360.0	990
129039	61 x 0.75	26.0	439.0	1280
129040	65 x 0.75	27.0	468.0	1330

Item No.	No. Of Core x Section mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
129041	OZ 2 x 1	6.2	19.2	66
129042	3 x 1	6.8	29.0	90
129043	4 x 1	7.2	38.4	120
129044	5 x 1	8.1	48.0	146
129045	7 x 1	10.1	67.0	210
129046	8 x 1	0.9	77.0	225
129047	10 x 1	12.2	96.0	270
129048	12 x 1	12.5	115.0	303
129049	16 x 1	14.0	154.0	406
129050	18 x 1	15.1	173.0	425
129051	20 x 1	15.9	192.0	505
129052	25 x 1	18.2	240.0	600
129053	34 x 1	20.7	326.0	776
129054	37 x 1	20.8	355.0	833
129055	41 x 1	22.6	394.0	925
129056	42 x 1	22.7	403.0	950
129057	50 x 1	25.1	480.0	1030
129058	61 x 1	27.5	586.0	1140
129059	65 x 1	28.0	628.0	1304
129060	OZ 2 x 1.5	7.3	29.0	100
129061	3 x 1.5	8.0	43.0	120
129062	4 x 1.5	8.5	58.0	155
129063	5 x 1.5	9.5	72.0	200
129064	7 x 1.5	11.5	101.0	208
129065	8 x 1.5	13.0	115.0	340
129066	10 x 1.5	14.1	144.0	360
129067	12 x 1.5	14.6	173.0	375
129068	16 x 1.5	16.5	230.0	440
129069	18 x 1.5	17.6	259.0	590
129070	20 x 1.5	18.5	288.0	680
129071	25 x 1.5	21.4	360.0	901
129072	34 x 1.5	24.2	490.0	1050
129073	37 x 1.5	24.3	533.0	1140
129074	50 x 1.5	29.8	720.0	1410
129075	61 x 1.5	32.5	878.0	1630
129076	65 x 1.5	33.5	936.0	1810
129077	OZ 2 x 2.5	7.9	48.0	150
129078	3 x 2.5	8.6	72.0	180
129079	4 x 2.5	9.4	96.0	236
129080	5 x 2.5	10.6	120.0	296
129081	7 x 2.5	13.1	168.0	363
129082	8 x 2.5	13.9	192.0	378
129083	10 x 2.5	15.7	240.0	444
129084	12 x 2.5	16.2	288.0	571
129085	16 x 2.5	18.3	384.0	730
129086	18 x 2.5	19.5	432.0	800
129087	20 x 2.5	20.5	480.0	1070
129088	25 x 2.5	23.6	600.0	1100
129089	30 x 2.5	25.0	720.0	1280

Item No.	No. Of Core x Section mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
129090	OZ 2 x 4	9.7	77.0	199
129091	3 x 4	10.5	115.0	282
129092	4 x 4	11.6	154.0	369
129093	5 x 4	13.3	192.0	444
129094	7 x 4	16.1	269.0	525
129095	8 x 4	17.7	307.0	603
129096	10 x 4	19.5	384.0	798
129097	12 x 4	20.3	461.0	984
129098	16 x 4	22.7	614.0	1350
129099	18 x 4	24.3	691.0	1510
1290100	OZ 2 x 6	11.9	115.0	266
1290101	3 x 6	12.6	173.0	399
1290102	4 x 6	14.0	230.0	590
1290103	5 x 6	15.7	288.0	715
1290104	7 x 6	17.5	403.0	963
1290105	OZ 2 x 10	14.9	192.0	490
1290106	3 x 10	16.3	288.0	750
1290107	4 x 10	17.9	384.0	908
1290108	5 x 10	19.9	480.0	1120
1290109	7 x 10	22.4	672.0	1460
1290110	OZ 2 x 16	17.2	307.0	665
1290111	3 x 16	18.8	461.0	998
1290112	4 x 16	20.5	614.0	1338
1290113	5 x 16	23.4	768.0	1685
1290114	7 x 16	26.3	1075.0	1869
1290115	3 x 25	24.6	720.0	1245
1290116	4 x 25	27.8	960.0	1661
1290117	5 x 25	30.7	1200.0	2099
1290118	3 x 35	29.9	1008.0	1664
1290119	4 x 35	33.6	1344.0	2210
1290120	5 x 35	37.8	1680.0	2765
1290121	3 x 50	33.7	1440.0	2678
1290122	4 x 50	37.9	1920.0	3087
1290123	5 x 50	42.0	2400.0	4133
1290124	3 x 70	40.3	2016.0	3339
1290125	4 x 70	44.1	2688.0	4295
1290126	5 x 70	48.4	3360.0	5715
1290127	3 x 95	46.5	2736.0	4914
1290128	4 x 95	51.3	3648.0	5817
1290129	5 x 95	56.2	4560.0	7278
1290130	3 x 120	49.9	3456.0	5515
1290131	4 x 120	54.7	4608.0	7350