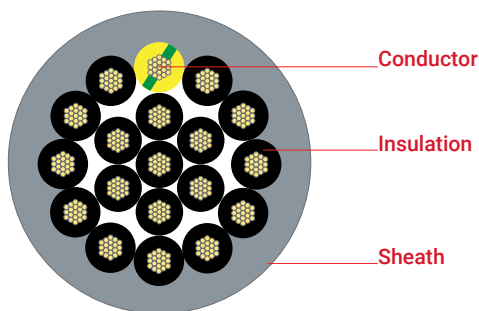




**Cable structure**



Stranded copper wire  
Class 5, IEC 60228

HFFR, in compliance with EN 50334 insulation colour coding,  
black core with white number codes  
TI6 EN 50363-7

HFFR - RAL 7001 Grey  
TM7 EN 50363-8

**Application**

It is a flexible halogen-free insulated and sheathed control cable with number-coded cores. Used in dry or wet interior areas not exposed to mechanical strain. Preferred for mobile installations and confined spaces thanks to its flexible and thin design. Used for measurement and control functions in electronic control systems, production and assembly lines and engineering projects. Cables are composed of halogen-free materials (flame retardant materials that do not emit toxic gas or black dense smoke that lowers visibility). They are primarily used in highly populated areas that should have fire resistance.

HSLH-OZ: black core with white number codes  
HSLHJZ: ground protection conductor (yellow/green), black core with white number codes

**Specifications**

<b>Temperature range</b>		
fixed		-30°C ...+70°C
flexing		0°C ...+50°C
<b>Bending radius</b>		
fixed	min.	7.5 x D
flexing	min.	15 x D
<b>Conductor resistance</b>		
	0.50 mm <sup>2</sup> max.	39.0 Ω/km
	0.75 mm <sup>2</sup> max.	26.0 Ω/km
	1.0 mm <sup>2</sup> max.	19.5 Ω/km
	1.5 mm <sup>2</sup> max.	13.3 Ω/km
	2.5 mm <sup>2</sup> max.	7.98 Ω/km
<b>Insulation resistance</b>	min.	20 MΩ x km
<b>Test voltage</b>		2500 V
<b>Operating voltage</b>	max.	300/500 V

**Standards** EN 50525-2-51

**Fire performance**

Vertical flame propagation	EN 60332-1-2
Corrosive gas	EN 60754-1/2
Smoke density	EN 61034-2

**EU declaration of conformity**

LVD	Low Voltage Directive	2014/35/EU
RoHS	Restriction of Hazardous Substances	2011/65/EU

Specifications may vary depending on technical modifications.

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
218002	2x0.50 mm <sup>2</sup>	4.8	9	38
218003	3x0.50 mm <sup>2</sup>	5.1	14	42
218004	4x0.50 mm <sup>2</sup>	5.5	18	47
218005	5x0.50 mm <sup>2</sup>	6.2	23	63
218006	6x0.50 mm <sup>2</sup>	6.7	27	74
218007	7x0.50 mm <sup>2</sup>	6.7	32	78
218010	10x0.50 mm <sup>2</sup>	8.1	45	105
218012	12x0.50 mm <sup>2</sup>	9.0	55	127
218014	14x0.50 mm <sup>2</sup>	9.5	64	143
218016	16x0.50 mm <sup>2</sup>	10.0	73	173
218018	18x0.50 mm <sup>2</sup>	10.7	82	186
218019	19x0.50 mm <sup>2</sup>	10.7	87	189
218024	24x0.50 mm <sup>2</sup>	12.2	109	239
218027	27x0.50 mm <sup>2</sup>	12.8	123	263
218030	30x0.50 mm <sup>2</sup>	13.6	137	296
218033	33x0.50 mm <sup>2</sup>	14.1	151	321
218036	36x0.50 mm <sup>2</sup>	14.7	164	355
218037	37x0.50 mm <sup>2</sup>	14.7	169	358

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
218062	2x0.75 mm <sup>2</sup>	5.2	14	46
218063	3x0.75 mm <sup>2</sup>	5.5	20	52
218064	4x0.75 mm <sup>2</sup>	6.2	27	63
218065	5x0.75 mm <sup>2</sup>	6.7	34	79
218066	6x0.75 mm <sup>2</sup>	7.5	41	98
218067	7x0.75 mm <sup>2</sup>	7.5	48	104
218070	10x0.75 mm <sup>2</sup>	9.1	68	141
218072	12x0.75 mm <sup>2</sup>	9.8	82	163
218074	14x0.75 mm <sup>2</sup>	10.6	96	191
218076	16x0.75 mm <sup>2</sup>	11.2	109	231
218078	18x0.75 mm <sup>2</sup>	11.9	123	247
218079	19x0.75 mm <sup>2</sup>	11.9	130	252
218084	24x0.75 mm <sup>2</sup>	13.6	164	319
218087	27x0.75 mm <sup>2</sup>	14.2	185	349
218090	30x0.75 mm <sup>2</sup>	15.1	206	393
218093	33x0.75 mm <sup>2</sup>	15.7	226	429
218096	36x0.75 mm <sup>2</sup>	16.3	247	470
218097	37x0.75 mm <sup>2</sup>	16.3	253	476

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
218122	2x1 mm <sup>2</sup>	5.6	18	57
218123	3x1 mm <sup>2</sup>	6.2	27	67
218124	4x1 mm <sup>2</sup>	6.7	36	77
218125	5x1 mm <sup>2</sup>	7.5	45	102
218126	6x1 mm <sup>2</sup>	8.1	55	120
218127	7x1 mm <sup>2</sup>	8.1	64	127
218130	10x1 mm <sup>2</sup>	9.8	91	172
218132	12x1 mm <sup>2</sup>	10.8	109	206
218134	14x1 mm <sup>2</sup>	11.5	127	236
218136	16x1 mm <sup>2</sup>	12.3	146	289
218138	18x1 mm <sup>2</sup>	12.9	164	304
218139	19x1 mm <sup>2</sup>	12.9	173	311
218144	24x1 mm <sup>2</sup>	14.9	219	399
218147	27x1 mm <sup>2</sup>	15.7	247	443
218150	30x1 mm <sup>2</sup>	16.6	274	494
218153	33x1 mm <sup>2</sup>	17.2	301	537
218156	36x1 mm <sup>2</sup>	17.9	329	591
218157	37x1 mm <sup>2</sup>	17.9	338	599

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
218182	2x1.5 mm <sup>2</sup>	6.8	27	83
218183	3x1.5 mm <sup>2</sup>	7.4	40	97
218184	4x1.5 mm <sup>2</sup>	8.1	53	112
218185	5x1.5 mm <sup>2</sup>	9.0	66	147
218186	6x1.5 mm <sup>2</sup>	9.8	80	176
218187	7x1.5 mm <sup>2</sup>	9.8	93	186
218190	10x1.5 mm <sup>2</sup>	12.1	133	258
218192	12x1.5 mm <sup>2</sup>	13.2	160	305
218194	14x1.5 mm <sup>2</sup>	14.1	187	350
218196	16x1.5 mm <sup>2</sup>	15.1	214	431
218198	18x1.5 mm <sup>2</sup>	15.8	240	451
218199	19x1.5 mm <sup>2</sup>	15.8	254	461
218204	24x1.5 mm <sup>2</sup>	18.2	321	589
218207	27x1.5 mm <sup>2</sup>	19.3	361	660
218210	30x1.5 mm <sup>2</sup>	20.2	401	726
218213	33x1.5 mm <sup>2</sup>	21.2	442	802
218216	36x1.5 mm <sup>2</sup>	22.0	482	881
218217	37x1.5 mm <sup>2</sup>	22.0	495	891

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
218242	2x2.5 mm <sup>2</sup>	7.8	44	117
218243	3x2.5 mm <sup>2</sup>	8.3	66	134
218244	4x2.5 mm <sup>2</sup>	9.2	88	159
218245	5x2.5 mm <sup>2</sup>	10.1	111	206
218246	6x2.5 mm <sup>2</sup>	11.2	133	252
218247	7x2.5 mm <sup>2</sup>	11.2	155	269
218250	10x2.5 mm <sup>2</sup>	13.8	222	373
218252	12x2.5 mm <sup>2</sup>	15.1	267	443
218254	14x2.5 mm <sup>2</sup>	16.3	311	516
218256	16x2.5 mm <sup>2</sup>	17.2	356	621
218258	18x2.5 mm <sup>2</sup>	18.2	400	662
218259	19x2.5 mm <sup>2</sup>	18.2	423	680
218264	24x2.5 mm <sup>2</sup>	20.9	535	863
218267	27x2.5 mm <sup>2</sup>	22.2	601	969
218270	30x2.5 mm <sup>2</sup>	23.4	669	1077
218273	33x2.5 mm <sup>2</sup>	24.3	735	1174
218276	36x2.5 mm <sup>2</sup>	25.2	802	1287
218277	37x2.5 mm <sup>2</sup>	25.2	824	1305

Specifications may vary depending on technical modifications.