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## Material code for harmonized cables in accordance with VDE 0281 / VDE 0282 / VDE 0292

H07VVH6-F 4 G 1,5

### Identification

- H harmonized definition
- A allowed national type

### Nominal voltage U

- 03 300/300V
- 05 300/500V
- 07 450/750V

### Type of insulation

- V PVC
- R Nature- and/or Styrol-Butadiene rubber
- N Chloroprene rubber
- J Braid of glass fibre
- T Braid of textile
- T2 textile braided with flame resistant mass
- B Ethylene propylene rubber
- E PE Polyethylene
- X XPE, crosslinked PE
- Q Polyurethane

### Particularity

- H flat,dividable cable
- H2 flat, none dividable cable
- H6 flat cable, none dividable, for elevator applications
- H8 spiral cable
- D3 central carrier unit
- D5 fillers
- C4 copper braiding

### Type of conductor

- U single-wire
- R multiwire
- K fine wired cables for fixed installation
- F fine wired cables for flexible installation
- H finest wired
- Y flattened wire

### Number of cores

### Earthed conductor

- X without earthed conductor
- G with earthed conductor

### Conductor rated cross-section in mm<sup>2</sup>

### H07RN-F 3G 1,5 (according to VDE 0282)

Harmonized rubber sheathed flexible cable for medium stresses three-core 1,5mm<sup>2</sup> fine wired, earthed conductor green-yellow, nominal voltage 750 V.

## Core identification in accordance with VDE 0293-308:2003

### Cables for fixed installation and flexible cables

Number of cores	Cables with green-yellow earthed conductor (- J) or G	Cables without green-yellow earthed conductor (-O) or X
2		blue/brown
3	green-yellow/blue/brown	brown/black/grey
4	green-yellow/brown/black/grey	blue/brown/black/grey
5	green-yellow/blue/brown/black/grey	blue/brown/black/grey/black
6 and more	green-yellow/other cores with black figure imprint	black with figure imprint

### Multiwire cables for fixed installation with concentric conductor

Number of cores	Core identification	The colour of the single-wire and sheathed cable is black or green-yellow
2	black/blue	
3	black/blue/brown	
4	black/blue/brown/black	
5	black cores with white numbers*)	
6 and more	black cores with white numbers**)	

\*) This performance amounts 6 conductors, please see VDE 0293 part 5,1

\*\*\*) Please see VDE 0293 part 5,1

### Single-wire cable

## Colour identification in accordance with DIN 47100

1	white	24	brown-red
2	brown	25	white-black
3	green	26	brown-black
4	yellow	27	grey-green
5	grey	28	yellow-grey
6	pink	29	pink-green
7	blue	30	yellow-pink
8	red	31	green-blue
9	black	32	yellow-blue
10	violet	33	green-red
11	grey-pink	34	green-black
12	red-blue	35	green-black
13	white-green	36	yellow-black
14	brown-green	37	grey-blue
15	white-yellow	38	pink-blue
16	yellow-brown	39	grey-pink
17	white-grey	40	pink-red
18	grey-brown	41	grey-black
19	white-pink	42	pink-black
20	pink-brown	43	blue-black
21	white-blue	44	red-black
22	brown-blue	45	colour repetition
23	white-red		

## Colour identification in accordance with DIN VDE 0293

0	green-yellow	24	red-black	48	green-violet
1	black	25	blue-black	49	white-violet
2	blue	26	yellow-black	50	orange-violet
3	brown	27	green-black	51	brown-violet
4	beige	28	violet-black	52	black-white
5	yellow	29	white-black	53	black-yellow
6	green	30	orange-black	54	black-red
7	violet	31	brown-black	55	black-green
8	pink	32	red-green	56	black-blue
9	orange	33	grey-green	57	black-violet
10	white	34	violet-green	58	grey-white
11	red-white	35	white-green	59	grey-black
12	blue-white	36	orange-green	60	grey-yellow
13	yellow-white	37	brown-green	61	grey-red
14	green-white	38	red-yellow	62	grey-blue
15	violet-white	39	blue-violet	63	grey-violet
16	orange-white	40	violet-yellow	64	red-grey
17	brown-white	41	white-yellow	65	blue-grey
18	blue-red	42	brown-yellow	66	yellow-grey
19	yellow-red	43	red-blue	67	green-grey
20	green-red	44	white-blue	68	violet-grey
21	white-red	45	orange-blue	69	white-grey
22	orange-red	46	brown-blue	70	orange-grey
23	brown-red	47	yellow-violet		

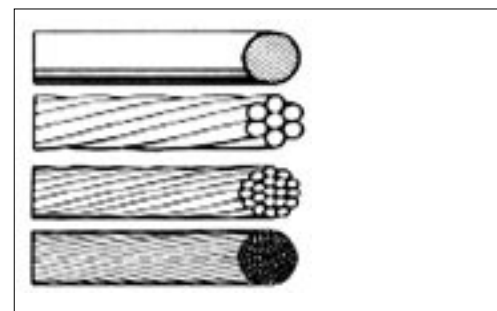
## Structure of stranded wires in accordance with VDE 0295 and amplified

Cross-section mm <sup>2</sup>	multiwire conductor class 2 VDE 0295		multiwire conductor	fine stranded conductor class 5	finest stranded conductor class 6		
	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
	wire- <sup>3)</sup> quantity x wire	wire quantity x wire	wire- <sup>1)</sup> single- <sup>2)</sup> quantity x wire	wire- <sup>1)</sup> single- <sup>2)</sup> quantity x wire	wire- <sup>1)</sup> single quantity x wire	wire- <sup>1)</sup> single quantity x wire	wire- <sup>1)</sup> single quantity x wire
mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	mm
0,14			18 x 0,10	18 x 0,10	18 x 0,10	36 x 0,07	72 x 0,05
0,25			14 x 0,15	32 x 0,10	32 x 0,10	65 x 0,07	128 x 0,05
0,34		7 x 0,25	19 x 0,15	42 x 0,10	42 x 0,10	88 x 0,07	174 x 0,05
0,38		7 x 0,27	12 x 0,20	21 x 0,15	48 x 0,10	100 x 0,07	194 x 0,05
0,50	7 x 0,30	7 x 0,30	16 x 0,20	28 x 0,15	64 x 0,10	131 x 0,07	256 x 0,05
0,75	7 x 0,37	7 x 0,37	24 x 0,20	42 x 0,15	96 x 0,10	195 x 0,07	384 x 0,05
1,0	7 x 0,43	7 x 0,43	32 x 0,20	56 x 0,15	128 x 0,10	260 x 0,07	512 x 0,05
1,5	7 x 0,52	7 x 0,52	30 x 0,25	84 x 0,15	192 x 0,10	392 x 0,07	768 x 0,05
2,5	7 x 0,67	19 x 0,41	50 x 0,25	140 x 0,15	320 x 0,10	651 x 0,07	1280 x 0,05
4	7 x 0,85	19 x 0,52	56 x 0,30	224 x 0,15	512 x 0,10	1040 x 0,07	
6	7 x 1,05	19 x 0,64	84 x 0,30	192 x 0,20	768 x 0,10	1560 x 0,07	
10	7 x 1,35	49 x 0,51	80 x 0,40	320 x 0,20	1280 x 0,10	2600 x 0,07	
16	7 x 1,70	49 x 0,65	128 x 0,40	512 x 0,20	2048 x 0,10		
25	7 x 2,13	84 x 0,62	200 x 0,40	800 x 0,20	3200 x 0,10		
35	7 x 2,52	133 x 0,58	280 x 0,40	1120 x 0,20			
50	19 x 1,83	133 x 0,69	400 x 0,40	705 x 0,30			
70	19 x 2,17	189 x 0,69	356 x 0,50	990 x 0,30			
95	19 x 2,52	259 x 0,69	485 x 0,50	1340 x 0,30			
120	37 x 2,03	336 x 0,67	614 x 0,50	1690 x 0,30			
150	37 x 2,27	392 x 0,69	765 x 0,50	2123 x 0,30			
185	37 x 2,52	494 x 0,69	944 x 0,50	1470 x 0,40			
240	61 x 2,24	627 x 0,70	1225 x 0,50	1905 x 0,40			
300	61 x 2,50	790 x 0,70	1530 x 0,50	2385 x 0,40			
400	61 x 2,89		2035 x 0,50				
500	61 x 3,23		1768 x 0,60				

- Specifications regarding to the quantity of wires are without obligation, most important is the conductor resistance according to DIN VDE 0295.
- The diameters of the single-wires of each conductor should not exceed the indicated maximum values.
- Minimum quantity of single-wires in the conductor. The single-wires of a conductor should have the similar nominal diameter

**Note:** Maximum allowed diameter of single-wire:

Nominal value mm	Max. value mm
0,20	0,21
0,25	0,26
0,30	0,31
0,40	0,41
0,50	0,51
0,60	0,61



Carrying capacity, cables with nominal voltage up to 1000 V and thermo resistant cables VDE 0298 part 4, VDE 0110 part 523 and VDE 0891 part 1

Key of the type of construction <sup>1)</sup>	1	2	3	4
H05V-U, H05V-K H07V-U, H07V-R, H07V-K H07V3-U, H07V3-R H07V3-K N05XAFX, N07XAFX NFXW H05RN-F, H07RN-F H05V2-U, H05V2-K H07V2-U, H07V2-K H05Z-U H07Z-U, H07Z-R, H07Z-K NHXA, NHXAF H05G-U, H05G-K H07G-U, H07G-R, H07G-K N7YA, N7YAF N2GFA, N2GFAF H05S-U, H05S-K H05SJ-K, A05SJ-U A05SJ-K		H03RT-F, A03RT-F H05RR-F, A05RR-F, A05RRT-F H05RN-F, A05RN-F H05RNH2-F H07RN-F, A07RN-F H03VH-Y 2) H03VH-H H03VV-F, A03VV-F, H03VVH2-F H05VV-F, A05VV-F H05VVH2-F H03VVH8-F H03VVH2H8-F H05VVH8-F H05VVH2H8-F		NPL, NMHVÖU, NYMHYV NSHCÖU, NGFLGÖU NSHTÖU H05RTD5-F, H05RND5-F H05RTD3-F, H05RND3-F H07RTD5-F, H07RND5-F H07RTD3-F, H07RND3-F H07RN-F, A07RN-F NYMH11YÖ, NGMH11YÖ H05VVH6-F, H05VVD3H6-F H07VVH6-F, H07VVD3H6-F A07VVH6-F, A07VVD3H6-F NXMHX NYSLYÖ, NYSLYCYÖ NYSLY, NYSLYCY NLSY, NLSCY NSY, NSCY NYPLYW, NYFAZW N2GSA, N2GMH2G
Type of installation free in the air	on or around areas			
Number of loaded cores	1	2	3	2 or 3
Cross-section copper conductor	Carrying capacity in A			
0,5	-	3	3	-
0,75	15	6	6	12
1	19	10	10	15
1,5	24	16	16	18
2,5	32	25	20	26
4	42	32	25	34
6	54	40	-	44
10	73	63	-	61
16	98	-	-	82
25	129	-	-	108
35	158	-	-	135
50	198	-	-	168
70	245	-	-	207
95	292	-	-	250
120	344	-	-	292
150	391	-	-	335
185	448	-	-	382
240	528	-	-	453
300	608	-	-	523
400	726	-	-	-
500	830	-	-	-
Carrying capacity according to	DIN VDE 0100 part 532/06.81 group 3	HD 22.S2 part 1 respectively Hd 21.S2 part 1		DIN VDE 0100 part 523/06.81 group 2
Conversion factor for:	table			
Deviated ambient temperature	please see table 8	-		please see table 8
Accumulation	please see table 8	-		
Installation under the cover	-			
Multiwired cores	-			

- Allowed working temperature at the conductor, please see schedule 1.
- Required conductor cross-section 0,1 mm<sup>2</sup>, capable of bearing 0,2 A independent of the ambient temperature.
- The carrying capacity in the column 3 and 4 has to be used for the application of household and hand-held equipment.

Conversion table AWG 4/0 up to AWG 16

AWG	Single-wire		Conductor		Resistance Ohm/km	Copper no. kg/km
	Number	Diameter mm	Diameter mm	Cross-section mm <sup>2</sup>		
4-0/1	1	11,70	11,7	107,0	0,18	965,0
4-0/5	2104	0,25	15,4	107,0	0,20	1005,0
3-0/1	1	10,40	10,4	85,0	0,23	758,0
3-0/5	1664	0,25	11,8	84,2	0,22	749,0
2-0/1	1	9,30	9,3	67,4	0,29	601,0
2-0/5	1330	0,25	10,6	67,4	0,29	601,0
1-0/1	1	8,30	8,3	53,5	0,36	477,0
1-0/5	1045	0,25	9,6	53,0	0,36	475,0
1/1	1	7,30	7,3	42,2	0,47	377,0
1/817	817	0,25	8,3	41,4	0,48	374,0
2/1	1	6,50	6,5	33,6	0,56	300,0
2/665	665	0,25	7,8	33,7	0,56	302,0
4/1	1	5,20	5,2	21,1	0,90	188,0
4/133	133	0,46	6,3	21,6	0,90	188,0
4/420	410	0,25	6,3	21,6	0,90	188,0
6/1	1	4,10	4,1	13,6	1,44	118,0
6/133	133	0,36	5,2	13,6	1,44	118,0
6/266	420	0,25	5,0	13,6	1,44	118,0
8/1	1	3,30	3,3	8,36	2,36	75,0
8/133	133	0,29	4,2	8,63	2,33	78,0
8/168	168	0,25	4,4	8,51	2,35	77,0
10/1	1	2,60	2,6	5,26	3,64	46,0
10/37	37	0,40	2,8	4,85	4,02	43,0
10/105	105	0,25	3,2	5,32	3,60	50,0
12/1	1	2,10	2,1	3,31	5,41	29,0
12/19	19	0,46	2,3	3,08	6,14	28,0
12/65	65	0,25	2,3	3,08	6,14	28,0
14/1	1	1,60	1,6	2,08	8,79	18,0
14/19	19	0,36	1,8	1,95	10,08	18,0
14/41	41	0,25	2,0	2,08	8,79	18,0
16/1	1	1,30	1,3	1,31	14,70	12,0
16/7	7	0,51	1,5	1,43	13,30	12,0
16/19	19	0,29	1,5	1,43	13,30	12,0

Conversion table AWG 18/1 up to AWG 44

AWG	Single-wire		Conductor		Resistance Ohm/km	Copper no. kg/km
	Number	Diameter mm	Diameter mm	Cross-section mm <sup>2</sup>		
18/1	1	1,02	1,02	0,82	21,5	7,34
18/7	7	0,41	1,22	0,89	20,5	7,86
18/19	19	0,25	1,27	0,96	20,0	7,92
20/1	1	0,81	0,81	0,52	33,5	4,62
20/7	7	0,32	0,96	0,56	33,8	4,73
20/19	19	0,20	1,02	0,61	31,2	5,15
22/1	1	0,64	0,64	0,33	54,2	2,79
22/7	7	0,25	0,76	0,35	49,6	3,04
22/19	19	0,16	0,81	0,38	46,5	3,21
24/1	1	0,51	0,51	0,205	85,5	1,73
24/7	7	0,203	0,61	0,227	79,4	1,92
24/19	19	0,127	0,64	0,241	77,2	2,04
26/1	1	0,405	0,405	0,128	138,6	1,08
26/7	7	0,160	0,480	0,141	125,2	1,19
26/19	19	0,102	0,512	0,149	117,6	1,26
28/1	1	0,320	0,320	0,080	215,8	0,68
28/7	7	0,127	0,381	0,089	190,7	0,75
28/19	19	0,080	0,403	0,092	187,2	0,78
30/1	1	0,254	0,254	0,050	342,2	0,42
30/7	7	0,102	0,302	0,057	312,8	0,48
32/1	1	0,201	0,201	0,032	546,4	0,27
32/7	7	0,080	0,234	0,034	518,4	0,29
34/1	1	0,160	0,160	0,020	872,6	0,17
34/7	7	0,065	0,195	0,022	802,4	0,19
36/1	1	0,125	0,125	0,012	1453,0	0,10
36/7	7	0,050	0,150	0,014	1280,0	0,12
38/1	1	0,100	0,100	0,008	2180,0	0,07
40/1	1	0,080	0,080	0,0048	3620,0	0,04
42/1	1	0,065	0,065	0,0030	5580,0	0,03
44/1	1	0,050	0,050	0,0020	8750,0	0,02

## Lowest allowed bending radius

in accordance with DIN VDE 0298 part 3  
Nominal voltage up to 0,6/1kV

Cables for fixed installation	Outer diameter of cable / Thickness of flat cable in mm		
	up to 10 mm	over/up to 10-25 mm	over 25 mm
for fixed installation	4 x d	4 x d	4 x d
for internal wiring	1 x d	2 x d	3 x d

Flexible cables	Outer diameter of cable / Thickness of flat cable in mm			
	up to 8 mm	over/up to 8-12 mm	over/up to 12-20 mm	over 20 mm
for fixed installation	3 x d	3 x d	4 x d	4 x d
at free movement	3 x d	4 x d	5 x d	5 x d
at introduction	3 x d	4 x d	5 x d	5 x d

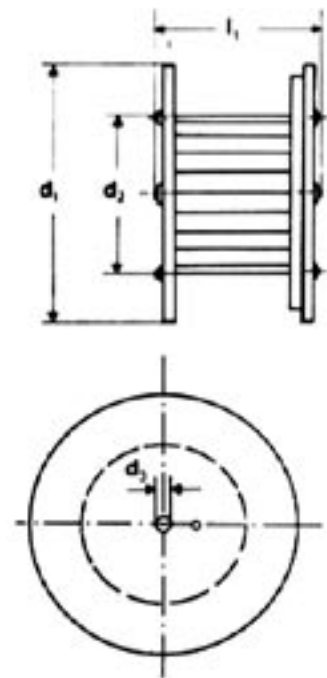
Flexible cables at restricted guidance	Outer diameter of cable / Thickness of flat cable in mm			
	up to 8 mm	over/up to 8-12 mm	over/up to 12-20 mm	over 20 mm
Drum operation	5 x d	5 x d	5 x d	6 x d
Cable trolley operation	3 x d	4 x d	5 x d	5 x d
Drag chain operation	4 x d	4 x d	5 x d	5 x d
Roller deviation	8 x d	8 x d	8 x d	8 x d

Material	Abbreviation	Key VDE	Working temperature	Tensile strength N/mm <sup>2</sup>	Elongation at tear %	Water absorption (20° C) %	Weathering resistance	Fuel resistance	Oil resistance	Burning behaviour
polyvinyl chloride	PVC	Y	-30 / +70	10 - 25	150 - 300	0,4	moderate	moderate	good	self-extinguishing
polyvinyl chloride thermoresistant	PVC	Y	-20 / +90	10 - 25	150 - 300	0,4	moderate	moderate	good	self-extinguishing
high-pressure polyethylene	LDPE	2Y	-50 / +70	20 - 30	500	0,1	good	slight	moderate	flammable
low pressure polyethylene	HDPE	2Y	-50 / +100	30	800	0,1	moderate	slight	moderate	flammable
polyurethane	PUR	11Y	-40 / +90/100	30 - 45	300 - 600	1,5	very good	good	good	self-extinguishing
polyamide	PA	4Y	-40 / +80	50 - 180	200 - 300	1 - 2	good	moderate	good	flammable
polybutylene-terephthalate	PBT/P		-60 / +110	50 - 100	50 - 300	0,5	good	good	good	flammable
polytetrafluorethylene	PTFE	5Y	-190 / +260	14 - 40	240 - 400	0,01	very good	very good	very good	non-flammable
tetrafluorethylene hexafluoropropylene copolymer	FEP	6Y	-100 / +200	20 - 25	250 - 350	0,01	very good	very good	very good	non-flammable
ethylene-tetrafluorethylene-perfluoroalkoxy-polymer	ETFE	7Y	-100 / +150	40 - 50	100 - 300	0,01	very good	very good	very good	non-flammable
chloroprene-chloroacetic acid	CR	5G	-40 / +100	25	450	1	very good	moderate	good	self-extinguishing
silicone	SI	2G	-60 / +180	5 - 10	200 - 350	1	very good	slight	hardly	flammable
ethylvinylacetate	EVA	4G	-30 / +125	5	200	0,01	good	slight	moderate	flammable
ethylene propylene-caoutchouc	EPM/EPDM	3G	-30 / +120	5 - 25	200 - 450	0,02	good	slight	slight	flammable
thermoplastic polyolefine elastomere	TPE-O		-40 / +120	> 6	> 400	1,5	very good	moderate	moderate	flammable
thermoplastic polyester elastomere	TPE-E	12Y	-70 / +125	3 - 25	280 - 650	0,3 - 0,6	very good	good	very good	flammable
styrene copolymer	TPE-S	-70	+105/140	9 - 25	500 - 700	1 - 2	moderate	good	slight	flammable

## Drum specification

### Weight / loading capacity and required space

No.	Drum size	d1	d2	l1	d3	Loading capacity kg	Weight approx. kg	Required space m <sup>2</sup>
051	05	510	150	460	50	100	8	0,24
071	07	710	355	530	80	400	25	0,38
081	08	800	400	530	80	600	31	0,43
091	09	900	450	690	80	800	47	0,62
101	10	1.000	500	690	80+4	900	71	0,69
121	12	1.250	630	890	80+4	1.700	140	1,12
141	14	1.400	710	1.100	80+4	2.000	170	1,54
161	16/8	1.600	800	1.100	80+4	3.000	253	1,76
181	18/10	1.800	1.000	1.350	100+3,5	4.000	323	2,43
201	20/12	2.000	1.250	1.480	100+3,5	5.000	527	2,96
221	22/14	2.240	1.400	1.480	125+4,2	6.000	637	3,32
250	25/14	2.500	1.400	1.480	125+4,2	7.500	737	3,70
251	25/16	2.500	1.600	1.480	125+4,2	7.500	767	3,70



### Following applies for flat cables

round cable Ø = flat cable thickness

### Calculation of the quantity of meters

Cable width : Cable thickness

### Drum sizes

Cable lengths depending on drum size and cable diameter

Cable Ø	071 07	081 08	091 09	101 10	121 12	141 14	161 16/8	181 18/10	201 20/12	221 22/14	250 25/14	251 25/16		
6	2.024	2.755												
7	1.481	2.340												
8	1.064	1.463	2.731											
9	892	1.152	2.202	2.866										
10	677	980	1.768	2.349										
11	564	761	1.404	1.912										
12	468	643	1.206	1.540										
13	385	542	1.032	1.339	2.727									
14	364	454	881	1.159	2.265	2.967								
15	297	430	749	1.000	1.991	2.479								
16	239	358	632	860	1.756	2.205								
17	228	294	603	736	1.545	1.959								
18	218	281	505	705	1.355	1.737								
19	172	228	485	599	1.184	1.535	2.722							
20	165	219	402	576	1.139	1.352	2.435	2.831						
21	159	211	387	485	991	1.304	2.172	2.527						
22	122	167	315	468	856	1.145	1.931	2.248						
23	117	161	304	389	827	999	1.869	2.172	2.953					
24	113	156	294	377	709	967	1.657	1.927	2.608					
25	110	151	285	365	688	839	1.608	1.867	2.522					
26	80	116	226	299	668	814	1.419	1.650	2.218					
27	78	113	221	290	567	700	1.244	1.450	2.150	2.861				
28	76	109	215	282	551	681	1.211	1.409	1.879	2.777				
29	73	106	209	226	462	663	1.180	1.371	1.826	2.450		2.976		
30	71	103	162	220	450	564	1.028	1.197	1.583	2.383		2.893		
31		76	157	214	438	550	1.003	1.166	1.540	2.089		2.558		
32		74	153	209	428	537	866	1.009	1.500	2.035	2.978	2.491		
33		72	150	204	352	451	846	985	1.289	1.984	2.908	2.428		
34			146	158	344	441	828	962	1.257	1.726	2.605	2.134		
35			108	154	336	431	707	824	1.227	1.685	2.547	2.083		
36			105	151	329	422	692	806	1.041	1.646	2.271	2.035		
37			103	148	265	348	678	788	1.017	1.418	2.223	1.774		
38				144	259	341	664	772	994	1.386	1.969	1.735		
39					107	254	334	560	653	972	1.356	1.930	1.697	
40					105	249	327	549	640	812	1.328	1.892	1.486	
41					102	244	264	539	627	795	1.130	1.664	1.453	
42					100	190	259	529	615	779	1.107	1.633	1.406	
43						187	254	437	511	763	1.085	1.603	1.199	
44						183	249	430	502	749	1.064	1.574	1.175	
45						180	245	422	492	611	890	1.373	1.153	
46						177	240	415	484	600	874	1.349	1.131	
47						174	187	408	475	589	858	1.326	1.110	
48						129	184	330	386	578	842	1.144	931	
49						127	181	325	380	568	828	1.125	914	
50						125	178	319	373	558	878	1.107	898	
51						123	175	314	367	442	666	1.089	883	
52							121	172	310	361	435	655	1.072	869
53								170	305	356	428	644	912	713
54								126	230	280	421	634	898	701
55								124	235	276	414	624	885	690
56								122	232	271	408	614	872	679
57								121	228	267	401	488	860	668
58								119	225	263	304	480	719	658
59								117	222	260	300	473	709	649
60									219	256	295	466	699	639
61									216	252	291	460	689	609
62									161	190	287	453	680	501

## Copper calculation

### The copper base

For most of our cables the price lists include a share of the copper price. The copper base is indicated in EUR per 100 kg.

150 EUR / 100 kg for most of the cables  
 100 EUR / 100 kg for telephone cables and other kind of cables  
 0 EUR / 100 kg for underground cables

### The copper number

The copper number is the copper weight of a cable. Our price list shows the copper number for each article.

### Example: H05BQ-F

Cross-section mm <sup>2</sup>	Price EUR / km Base CU 150	Copper number kg/km	Outer diameter approx. mm	Weight approx. kg/km
2 x 0,75	1.189,-	14,4	6,4	60

This means that 1 km of H05BQ-F 2 x 0,75 mm<sup>2</sup> includes 14,4 kg copper.

### The copper price

The cables will be sold on the base of daily copper prices (DEL). The DEL is the stock exchange listing for German electrolytic copper for purposes of conducting capacity, it means 99,5% pure copper. The DEL is stated in EUR per 100 kg and is listed in the economic part of the daily newspaper.

Example: DEL 183,00 means:  
 100 kg copper (Cu) will be charged of 183,00 EUR  
 In addition to the daily stock exchange will be charged 1% subscription.

### Formula to calculate the copper surcharge

$$\text{Copper number (kg/km)} \times \frac{(\text{DEL} + 1\% \text{ subscription}) - \text{copper base}}{100} = \text{copper surcharge in EUR/km}$$

Example:

H05BQ-F 2 x 0,75 mm<sup>2</sup>  
 DEL: 183,00 EUR / 100 kg  
 Copper base: 150,00 EUR / 100 kg  
 Copper number: 14,4 kg/km

$$14,4 \text{ kg/km} \times \frac{(183,00 + 1,83) - 150,00}{100} = 5,02 \text{ EUR/km}$$

The net prices including copper can be calculated as follows:

$$\begin{array}{l} \text{gross price} \\ - \text{discount} \\ + \text{copper surcharge} \\ \hline = \text{net price, copper included} \end{array}$$

### Telefax

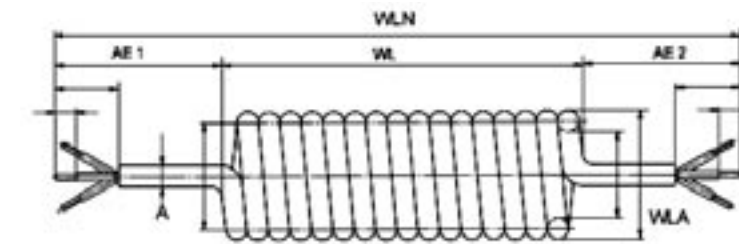
to Baude Kabeltechnik GmbH  
 Fax No.: +49 5066 7001 84

**Inquiry**  **Purchase order**  Date: \_\_\_\_\_

**From** \_\_\_\_\_  
 Address of head office \_\_\_\_\_

Telephone number: \_\_\_\_\_ Fax no.: \_\_\_\_\_

Contact person : \_\_\_\_\_



### Application

Quantity \_\_\_\_\_

Cable type \_\_\_\_\_ Colour: \_\_\_\_\_

Number of cores and cross-section \_\_\_\_\_

Closed length WL = \_\_\_\_\_ mm

Extended length AL = \_\_\_\_\_ mm

Spiral outer diameter WD = \_\_\_\_\_ mm

Straight end 1 A1 = \_\_\_\_\_ mm

Dismantled length 1 A2 = \_\_\_\_\_ mm

Stripped length A3 = \_\_\_\_\_ mm

Type of plug 1 Type: \_\_\_\_\_

Type of harness 1 \_\_\_\_\_

Straight end 2 B1 = \_\_\_\_\_ mm

Dismantled length 2 B2 = \_\_\_\_\_ mm

Stripped length 2 B3 = \_\_\_\_\_ mm

Type of plug 2 Type: \_\_\_\_\_

Type of harness 2 \_\_\_\_\_