







# Current rating for NHXH, NHXCH

(according to DIN VDE 0276-604 and DIN VDE 0276-627)

Arrangement	NHXH BiTflame®1000			NHXCH BiTflame®1000C		
						
No. of loaded cores	1	3	3	3	3	3
Cross section	Laying in air			Laying in air		
1,5	33	24	26	25	27	
2,5	43	32	34	33	36	
4,0	57	42	44	43	47	
6,0	72	53	56	54	59	
10	99	74	77	75	81	
16	131	98	102	100	109	
25	177	133	138	136	146	
35	217	162	170	165	179	
50	265	197	207	201	218	
70	336	250	263	255	275	
95	415	308	325	314	336	
120	485	359	380	364	388	
150	557	412	437	416	438	
185	646	475	507	480	501	
240	774	564	604	565	580	
300	901		697			

## Correction factors for multicore cables

No. of cores	Laying in the air
5	0,75
7	0,65
10	0,55
14	0,50
19	0,45
24	0,40
40	0,35
61	0,30

Core temperature during short circuit [°C]	Cores temperature at the moment of short circuit [°C]							
	90	80	70	60	50	40	30	20
	Short-circuit current density [A/mm <sup>2</sup> ] for 1 second short circuit							
250	143	149	154	159	165	170	176	181

# Current rating for NHXH, NHXCH

(according to DIN VDE 0276-604 and DIN VDE 0276-627)

		BITflame <sup>®</sup> 1000, BITflame <sup>®</sup> 1000C, NHXH FE180, NHXCH FE180							
		A2		B2		C		E	
Installation method									
		Multicore cables in the insulated tube in thermal insulated wall		Cables in the insulated tube mounted on the wall		Single and multicore cables mounted on the wall		Multicore cables with an interval of at least 0,3 x D from the wall	
No. of loaded cores		2	3	2	3	2	3	2	3
cross-section [mm <sup>2</sup> ]		Current rating [A]							
1,5		18,5	16,5	22	19,5	24	22	26	23
2,5		25	22	30	26	33	30	36	32
4		33	30	40	35	45	40	49	42
6		42	38	51	44	58	52	63	54
10		57	51	69	60	80	71	86	75
16		76	68	91	80	107	96	115	100
25		99	89	119	105	138	119	149	127
35		121	109	146	128	171	147	185	158
50		145	130	175	154	209	179	225	192
70		183	164	221	194	269	229	289	246
95		220	197	265	233	328	278	352	298
120		253	227	305	268	382	322	410	346
150		290	259	—	—	441	371	473	399
185		329	295	—	—	506	424	542	456
240		386	346	—	—	599	500	641	538

		BITflame <sup>®</sup> 1000, BITflame <sup>®</sup> 1000C, NHXH FE180, NHXCH FE180					
		F			G		
		Single core cables with an interval of at least 1 x D from the wall					
		Without a spacing			With spacing = D		
Installation method							
		Without a spacing			With spacing = D		
No. of loaded cores		2	3	3	3	3	
cross-section [mm <sup>2</sup> ]		Current rating [A]					
25		161	141	135	182	161	
35		200	176	169	226	201	
50		242	216	207	275	246	
70		310	279	268	353	318	
95		377	342	328	430	389	
120		437	400	383	500	454	
150		504	464	444	577	527	
185		575	533	510	661	605	
240		679	634	607	781	719	
300		783	736	703	902	833	