

Compensating Cables

Part No.	Thermo-pair materials to DIN 43713	Thermo-pair Type	Type	Core insulation	Jacket/Armouring/Jacket	Outer ø ca. mm	Form	Temperature range of insulation °C	Temperature range at installation °C	Min. bending radius ..x cable ø	Weight ca. kg/km
Single pair: 2 x 1,5 mm² (L = stranded wires, conductor make-up 48 x 0,20 mm; M = solid conductor, diameter 1,38 mm)											
48001	FE-CuNi (Ko)	L	AE 1 L stranded	PVC	–	5,4	round	–10°C to +80°C	stationary: –25°C to +70°C flexing: –5°C to +70°C	7,5	40
48002	SoNiCr-SoNi	K	AN 1 L stranded	PVC	–	5,4	round			7,5	40
48003	SoPtRh-SoPt	S	AP 1 L stranded	PVC	–	5,4	round			7,5	40
48230	Cu-CuNi (Ko)	U	AC 1 L stranded	PVC	–	5,4	round			7,5	40
48478	Fe-CuNi	J	AF 1 L stranded	PVC	–	5,4	round	–10°C to +80°C	stationary: –25°C to +70°C flexing: –5°C to +70°C	7,5	40
48004	Fe-CuNi (Ko)	L	AE 1 M stranded	PVC	–	5,4	round			10	40
48005	SoNiCr-SoNi	K	AN 1 M stranded	PVC	–	5,4	round			10	40
48006	SoPtRh-SoPt	S	AP 1 M stranded	PVC	–	5,4	round			10	40
48231	Cu-CuNi (Ko)	U	AC 1 M stranded	PVC	–	5,4	round			10	40
48007	Fe-CuNi (Ko)	L	AE 1 L-SIL stranded	Silicone	–	5,4	round	–60°C to +180°C	stationary: –25°C to +180°C flexing: –25°C to +180°C (short time +200°C)	7,5	40
48008	SoNiCr-SoNi	K	AN 1 L-SIL stranded	Silicone	–	5,4	round			7,5	40
48009	SoPtRh-SoPt	S	AP 1 L-SIL stranded	Silicone	–	5,4	round			7,5	40
48232	Cu-CuNi (Ko)	U	AC 1 L-SIL stranded	Silicone	–	5,4	round			7,5	40
48233	Fe-CuNi (Ko)	L	AE 2 M-SIL stranded	Silicone	textile tape/ lead sheath/ tin. steel wire braiding	7,8	round	–60°C to +180°C	stationary: –25°C to +180°C flexing: –25°C to +180°C (short time +200°C)	15	248
48234	SoNiCr-SoNi	K	AN 2 M-SIL stranded	Silicone		7,8	round			15	248
48235	SoPtRh-SoPt	S	AP 2 M-SIL stranded	Silicone		7,8	round			15	248
48236	Cu-CuNi (Ko)	U	AC 2 M-SIL stranded	Silicone		7,8	round			15	248
48010	Fe-CuNi (Ko)	L	AE 3 L parallel	glass filam.	glass. filam. braid./ galv. steel wire- braiding	5,0x7,2	oval	–60°C to +200°C	stationary: –25°C to +200°C flexing: –25°C to +200°C	7,5	64
48011	SoNiCr-SoNi	K	AN 3 L parallel	glass filam.		5,0x7,2	oval			7,5	64
48012	SoPtRh-SoPt	S	AP 3 L parallel	glass filam.		5,0x7,2	oval			7,5	64
48237	Cu-CuNi (Ko)	U	AC 3 L parallel	glass filam.		5,0x7,2	oval			7,5	64
48238	Fe-CuNi (Ko)	L	AE 3 Ln-SIL parallel	Silicone	Silicone	5,2x7,4	oval	–60°C to +180°C	stationary: –25°C to +180°C flexing: –25°C to +180°C (short time +200°C)	7,5	62
48239	SoNiCr-SoNi	K	AN 3 Ln-SIL parallel	Silicone		5,2x7,4	oval			7,5	62
48240	SoPtRh-SoPt	S	AP 3 Ln-SIL parallel	Silicone		5,2x7,4	oval			7,5	62
48241	Cu-CuNi (Ko)	U	AC 3 Ln-SIL parallel	Silicone		5,2x7,4	oval			7,5	62
48013	Fe-CuNi (Ko)	L	AE 4 L parallel	glass filam.	glass. filam. braid./ galv. steel wire- braiding	3,8x8,0	oval	–60°C to +200°C	stationary: –25°C to +200°C flexing: –25°C to +200°C	7,5	87
48014	SoNiCr-SoNi	K	AN 4 L parallel	glass filam.		3,8x8,0	oval			7,5	87
48015	SoPtRh-SoPt	S	AP 4 L parallel	glass filam.		3,8x8,0	oval			7,5	87
48242	Cu-CuNi (Ko)	U	AC 4 L parallel	glass filam.		3,8x8,0	oval			7,5	87
48016	Fe-CuNi (Ko)	L	AE 4 Ln-SIL	Silicone	Silicone/ galv. steel wire- braiding	6,0x8,2	oval	–60°C to +180°C	stationary: –25°C to +180°C flexing: –25°C to +180°C (short time +200°C)	7,5	85
48017	SoNiCr-SoNi	K	AN 4 Ln-SIL	Silicone		6,0x8,2	oval			7,5	85
48018	SoPtRh-SoPt	S	AP 4 Ln-SIL	Silicone		6,0x8,2	oval			7,5	85
48243	Cu-CuNi (Ko)	U	AC 4 Ln-SIL	Silicone		6,0x8,2	oval			7,5	85
48244	Fe-CuNi (Ko)	L	AE 5 L	PVC	PETP-tape/ Cu-solid wire braiding/ tinned/PVC-jacket	8,1	round	–10°C to +80°C	stationary: –25°C to +70°C flexing: –5°C to +70°C	7,5	93
48245	SoNiCr-SoNi	K	AN 5 L	PVC		8,1	round			7,5	93
48246	SoPtRh-SoPt	S	AP 5 L	PVC		8,1	round			7,5	93
48247	Cu-CuNi (Ko)	U	AC 5 L	PVC		8,1	round			7,5	93
48248	Fe-CuNi (Ko)	L	AE 6 L-SIL	Silicone	PETP-tape/ Cu-ground wire 0,5 mm ø / Alu-tape/Silicone	8,0	round	–60°C to +180°C	stationary: –25°C to +180°C flexing: –25°C to +180°C (short time +200°C)	7,5	94
48249	SoNiCr-SoNi	K	AN 6 L-SIL	Silicone		8,0	round			7,5	94
48250	SoPtRh-SoPt	S	AP 6 L-SIL	Silicone		8,0	round			7,5	94
48251	Cu-CuNi (Ko)	U	AC 6 L-SIL	Silicone		8,0	round			7,5	94
48252	Fe-CuNi (Ko)	L	AE 6 M-SIL	Silicone	PETP-tape/ Cu-ground wire 0,5 mm ø / Alu-tape/Silicone	7,8	round	–60°C to +180°C	stationary: –25°C to +180°C flexing: –25°C to +180°C (short time +200°C)	12	92
48253	SoNiCr-SoNi	K	AN 6 M-SIL	Silicone		7,8	round			12	92
48254	SoPtRh-SoPt	S	AP 6 M-SIL	Silicone		7,8	round			12	92
48255	Cu-CuNi (Ko)	U	AC 6 M-SIL	Silicone		7,8	round			12	92
48019	Fe-CuNi (Ko)	L	AE 7 L parallel	PVC	glass filament/ galv. steel wire braiding	5,5x8,2	oval	–10°C to +80°C	stationary: –25°C to +70°C flexing: –5°C to +70°C	7,5	60
48020	SoNiCr-SoNi	K	AN 7 L parallel	PVC		5,5x8,2	oval			7,5	60
48021	SoPtRh-SoPt	S	AP 7 L parallel	PVC		5,5x8,2	oval			7,5	60
48256	Cu-CuNi (Ko)	U	AC 7 L parallel	PVC		5,5x8,2	oval			7,5	60
48022	Fe-CuNi (Ko)	L	AE 8 L	PVC	glass filament/ galv. steel wire braiding	6,3x9,0	oval	–10°C to +80°C	stationary: –25°C to +70°C flexing: –5°C to +70°C	7,5	82
48023	SoNiCr-SoNi	K	AN 8 L	PVC		6,3x9,0	oval			7,5	82
48024	SoPtRh-SoPt	S	AP 8 L	PVC		6,3x9,0	oval			7,5	82
48257	Cu-CuNi (Ko)	U	AC 8 L	PVC		6,3x9,0	oval			7,5	82
48025	Fe-CuNi (Ko)	L	AE 9 L	PVC	PVC	7,0	round	–10°C to +80°C	stationary: –25°C to +70°C flexing: –5°C to +70°C	7,5	79
48026	SoNiCr-SoNi	K	AN 9 L	PVC		7,0	round			7,5	79
48027	SoPtRh-SoPt	S	AP 9 L	PVC		7,0	round			7,5	79
48258	Cu-CuNi (Ko)	U	AC 9 L	PVC		7,0	round			7,5	79
48479	Fe-CuNi	J	AF 9 L	PVC	PVC	7,0	round	–10°C to +80°C	stationary: –25°C to +70°C flexing: –5°C to +70°C	7,5	79
48028	Fe-CuNi (Ko)	L	AE 9-2 LS	PVC	PVC/galv. steel wire braiding	7,8	round			7,5	108
48029	SoNiCr-SoNi	K	AN 9-2 LS	PVC		7,8	round			7,5	108
48030	SoPtRh-SoPt	S	AP 9-2 LS	PVC		7,8	round			7,5	108
48259	Cu-CuNi (Ko)	U	AC 9-2 LS	PVC		7,8	round			7,5	108
48480	Fe-CuNi	J	AF 9-2 LS	PVC		7,8	round			7,5	108
48031	Fe-CuNi (Ko)	L	AE 9-2 LSY	PVC	PVC/galv. steel wire braiding/ PVC	9,8	round	–10°C to +80°C	stationary: –25°C to +70°C flexing: –5°C to +70°C	7,5	147
48032	SoNiCr-SoNi	K	AN 9-2 LSY	PVC		9,8	round			7,5	147
48069	SoPtRh-SoPt	S	AP 9-2 LSY	PVC		9,8	round			7,5	147
48260	Cu-CuNi (Ko)	U	AC 9-2 LSY	PVC		9,8	round			7,5	147

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Single pair: 2 x 1,5 mm² (L = stranded wires, conductor make-up 48 x 0,20 mm; M = solid conductor, diameter 1,38 mm)											
48033	FE-CuNi (Ko)	L	AE 9 M	PVC	PVC	7,0	round	-10°C to +80°C	stationary: -25°C to +70°C flexing: -5°C to +70°C	12	79
48034	SoNiCr-SoNi	K	AN 9 M	PVC	PVC	7,0	round			12	79
48035	SoPtRh-SoPt	S	AP 9 M	PVC	PVC	7,0	round			12	79
48261	Cu-CuNi (Ko)	U	AC 9 M	PVC	PVC	7,0	round			12	79
48262	Fe-CuNi (Ko)	L	AE 9-2 MSY	PVC	PVC/galv. steel wire braiding/ PVC	9,6	round	-10°C to +80°C	stationary: -25°C to +70°C flexing: -5°C to +70°C	12	144
48263	SoNiCr-SoNi	K	AN 9-2 MSY	PVC		9,6	round			12	144
48264	SoPtRh-SoPt	S	AP 9-2 MSY	PVC		9,6	round			12	144
48265	Cu-CuNi (Ko)	U	AC 9-2 MSY	PVC		9,6	round			12	144
48036	Fe-CuNi (Ko)	L	AE 10 L-SIL parallel	Silicone	glass filament	5,5x8,2	oval	-60°C to +180°C	stationary: -25°C to +180°C flexing: -25°C to +180°C (short time +200°C)	7,5	59
48037	SoNiCr-SoNi	K	AN 10 L-SIL parallel	Silicone	glass filament	5,5x8,2	oval			7,5	59
48038	SoPtRh-SoPt	S	AP 10 L-SIL parallel	Silicone	glass filament	5,5x8,2	oval			7,5	59
48266	Cu-CuNi (Ko)	U	AC 10 L-SIL parallel	Silicone	glass filament	5,5x8,2	oval			7,5	59
48039	Fe-CuNi (Ko)	L	AE 11 L	Silicone	glass filament/ galv. steel wire braiding	6,3x9,0	oval	-60°C to +180°C	stationary: -25°C to +180°C flexing: -25°C to +180°C (short time +200°C)	7,5	82
48040	SoNiCr-SoNi	K	AN 11 L	Silicone		6,3x9,0	oval			7,5	82
48041	SoPtRh-SoPt	S	AP 11 L	Silicone		6,3x9,0	oval			7,5	82
48267	Cu-CuNi (Ko)	U	AC 11 L	Silicone		6,3x9,0	oval			7,5	82
48042	Fe-CuNi (Ko)	L	AE 11 Lr	Silicone	glass filament/ galv. steel wire braiding	6,7	round	-60°C to +180°C	stationary: -25°C to +180°C flexing: -25°C to +180°C (short time +200°C)	7,5	83
48043	SoNiCr-SoNi	K	AN 11 Lr	Silicone		6,7	round			7,5	83
48044	SoPtRh-SoPt	S	AP 11 Lr	Silicone		6,7	round			7,5	83
48268	Cu-CuNi (Ko)	U	AC 11 Lr	Silicone		6,7	round			7,5	83
48045	Fe-CuNi (Ko)	L	AE 11 Mr	Silicone	glass filament/ galv. steel wire braiding	6,5	round	-60°C to +180°C	stationary: -25°C to +180°C flexing: -25°C to +180°C (short time +200°C)	12	83
48046	SoNiCr-SoNi	K	AN 11 Mr	Silicone		6,5	round			12	83
48047	SoPtRh-SoPt	S	AP 11 Mr	Silicone		6,5	round			12	83
48269	Cu-CuNi (Ko)	U	AC 11 Mr	Silicone		6,5	round			12	83
48048	Fe-CuNi (Ko)	L	AE 12 L parallel	PVC	PVC	4,3x7,0	oval	-10°C to +80°C	stationary: -25°C to +70°C flexing: -5°C to +70°C	7,5	69
48049	SoNiCr-SoNi	K	AN 12 L parallel	PVC	PVC	4,3x7,0	oval			7,5	69
48050	SoPtRh-SoPt	S	AP 12 L parallel	PVC	PVC	4,3x7,0	oval			7,5	69
48270	Cu-CuNi (Ko)	U	AC 12 L parallel	PVC	PVC	4,3x7,0	oval			7,5	69
48481	Fe-CuNi	J	AF 12 L parallel	PVC	PVC	4,3x7,0	oval			7,5	69
48051	Fe-CuNi (Ko)	L	AE 12 M parallel	PVC	PVC	4,2x6,8	oval	-10°C to +80°C	stationary: -25°C to +70°C flexing: -5°C to +70°C	12	61
48052	SoNiCr-SoNi	K	AN 12 M parallel	PVC	PVC	4,2x6,8	oval			12	61
48053	SoPtRh-SoPt	S	AP 12 M parallel	PVC	PVC	4,2x6,8	oval			12	61
48271	Cu-CuNi (Ko)	U	AC 12 M parallel	PVC	PVC	4,2x6,8	oval			12	61
48054	Fe-CuNi (Ko)	L	AE 13 L parallel	Silicone	glass filament	3,2x5,9	oval	-60°C to +180°C	stationary: -25°C to +180°C flexing: -25°C to +180°C (short time +200°C)	7,5	45
48055	SoNiCr-SoNi	K	AN 13 L parallel	Silicone	glass filament	3,2x5,9	oval			7,5	45
48056	SoPtRh-SoPt	S	AP 13 L parallel	Silicone	glass filament	3,2x5,9	oval			7,5	45
48272	Cu-CuNi (Ko)	U	AC 13 L parallel	Silicone	glass filament	3,2x5,9	oval			7,5	45
48057	Fe-CuNi (Ko)	L	AE 13 M	Silicone	glass filament	3,5x6,0	oval	-60°C to +180°C	stationary: -25°C to +180°C flexing: -25°C to +180°C (short time +200°C)	12	45
48058	SoNiCr-SoNi	K	AN 13 M	Silicone	glass filament	3,5x6,0	oval			12	45
48059	SoPtRh-SoPt	S	AP 13 M	Silicone	glass filament	3,5x6,0	oval			12	45
48273	Cu-CuNi (Ko)	U	AC 13 M	Silicone	glass filament	3,5x6,0	oval			12	45
48060	Fe-CuNi (Ko)	L	AE 14 L	Silicone	special Silicone compound, foamed/ galv. steel tubing	11,7	round	-60°C to +180°C	stationary: -25°C to +180°C flexing: -25°C to +180°C (short time +200°C)	7,5	196
48061	SoNiCr-SoNi	K	AN 14 L	Silicone		11,7	round			7,5	196
48062	SoPtRh-SoPt	S	AP 14 L	Silicone		11,7	round			7,5	196
48274	Cu-CuNi (Ko)	U	AC 14 L	Silicone		11,7	round			7,5	196
48063	Fe-CuNi (Ko)	L	AE 15 L	Silicone	Silicone	7,7	round	-60°C to +180°C	stationary: -25°C to +180°C flexing: -25°C to +180°C (short time +200°C)	7,5	76
48064	SoNiCr-SoNi	K	AN 15 L	Silicone	Silicone	7,7	round			7,5	76
48065	SoPtRh-SoPt	S	AP 15 L	Silicone	Silicone	7,7	round			7,5	76
48275	Cu-CuNi (Ko)	U	AC 15 L	Silicone	Silicone	7,7	round			7,5	76
48482	Fe-CuNi	J	AF 15 L	Silicone	Silicone	7,7	round			7,5	76
48066	Fe-CuNi (Ko)	L	AE 15 LS	Silicone	Silicone/ galv. steel wire braiding	7,8	round	-10°C to +180°C	stationary: -25°C to +180°C flexing: -25°C to +180°C (short time +200°C)	7,5	105
48067	SoNiCr-SoNi	K	AN 15 LS	Silicone		7,8	round			7,5	105
48068	SoPtRh-SoPt	S	AP 15 LS	Silicone		7,8	round			7,5	105
48276	Cu-CuNi (Ko)	U	AC 15 LS	Silicone		7,8	round			7,5	105
48277	Fe-CuNi (Ko)	L	AE 16 L-SIL parallel	Silicone	-	2,8x5,6	oval	-10°C to +180°C	stationary: -25°C to +180°C flexing: -25°C to +180°C (short time +200°C)	7,5	38
48278	SoNiCr-SoNi	K	AN 16 L-SIL parallel	Silicone	-	2,8x5,6	oval			7,5	38
48279	SoPtRh-SoPt	S	AP 16 L-SIL parallel	Silicone	-	2,8x5,6	oval			7,5	38
48280	Cu-CuNi (Ko)	U	AC 16 L-SIL parallel	Silicone	-	2,8x5,6	oval			7,5	38
48281	Fe-CuNi (Ko)	L	AE 18 L	HELUFLO [®] -FEP	HELUFLO [®] -FEP	4,4	round	-100°C to +200°C	stationary: -25°C to +205°C flexing: -25°C to +205°C	7,5	37
48282	SoNiCr-SoNi	K	AN 18 L	HELUFLO [®] -FEP	HELUFLO [®] -FEP	4,4	round			7,5	37
48283	SoPtRh-SoPt	S	AP 18 L	HELUFLO [®] -FEP	HELUFLO [®] -FEP	4,4	round			7,5	37
48284	Cu-CuNi (Ko)	U	AC 18 L	HELUFLO [®] -FEP	HELUFLO [®] -FEP	4,4	round			7,5	37
48285	Fe-CuNi (Ko)	L	AE 19 L	HELUFLO [®] -FEP	PETP-tape/ Cu-solid wire braiding	5,6	round	-100°C to +200°C	stationary: -25°C to +205°C flexing: -25°C to +205°C	7,5	60
48286	SoNiCr-SoNi	K	AN 19 L	HELUFLO [®] -FEP		5,6	round			7,5	60
48287	SoPtRh-SoPt	S	AP 19 L	HELUFLO [®] -FEP		5,6	round			7,5	60
48288	Cu-CuNi (Ko)	U	AC 19 L	HELUFLO [®] -FEP		5,6	round			7,5	60

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Single pair: 2 x 1,5 mm² (L = stranded wires, conductor make-up 48 x 0,20 mm; M = solid conductor, diameter 1,38 mm)											
48289	FE-CuNi (Ko)	L	AE 20 L	PVC	PETP-tape/	8,0	round	-10°C to +80°C	stationary: -25°C to +70°C flexing: -5°C to +70°C	7,5	75
48290	SoNiCr-SoNi	K	AN 20 L	PVC	Cu-ground wire	8,0	round			7,5	75
48291	SoPtRh-SoPt	S	AP 20 L	PVC	bare 0,5 mm ø /	8,0	round			7,5	75
48292	Cu-CuNi (Ko)	U	AC 20 L	PVC	Alu-tape/PVC	8,0	round			7,5	75
48293	Fe-CuNi (Ko)	L	AE 20 M	PVC	PETP-tape/	8,2	round	-10°C to +80°C	stationary: -25°C to +70°C flexing: -5°C to +70°C	12	82
48294	SoNiCr-SoNi	K	AN 20 M	PVC	Cu-ground wire	8,2	round			12	82
48295	SoPtRh-SoPt	S	AP 20 M	PVC	bare 0,5 mm ø /	8,2	round			12	82
48296	Cu-CuNi (Ko)	U	AC 20 M	PVC	Alu-tape/PVC	8,2	round			12	82