

COMPENSATING CABLES

Part no.	Thermocouple element material in accordance with DIN 43713	Thermocouple type	Core insulation	Jacket/armoring jacket	Outer Ø approx. mm	Form	Temperature range of insulation °C	Installation temperature range °C	min. bending radius x cable Ø	Weight approx. kg/km
Single-pair: 2 x 1.5 mm² (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor Ø 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			7.5	40
48004	Fe-CuNi (Ko)	L	AE 1 M stranded	PVC	5.4	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C	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	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-fiber	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-fiber	5.0x7.2	oval			7.5	64
48012	SoPtRh-SoPt	S	AP 3 L parallel	glass-fiber	5.0x7.2	oval			7.5	64
48237	Cu-CuNi (Ko)	U	AC 3 L parallel	glass-fiber	5.0x7.2	oval			7.5	64
48238	Fe-CuNi (Ko)	L	AE 3 Ln-SIL parallel	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-fiber	5.8x8.0	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-fiber	5.8x8.0	oval			7.5	87
48015	SoPtRh-SoPt	S	AP 4 L parallel	glass-fiber	5.8x8.0	oval			7.5	87
48242	Cu-CuNi (Ko)	U	AC 4 L parallel	glass-fiber	5.8x8.0	oval			7.5	87
48016	Fe-CuNi (Ko)	L	AE 4 Ln-SIL	silicone	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	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	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	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	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	6.9x9.0	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	6.9x9.0	oval			7.5	82
48024	SoPtRh-SoPt	S	AP 8 L	PVC	6.9x9.0	oval			7.5	82
48257	Cu-CuNi (Ko)	U	AC 8 L	PVC	6.9x9.0	oval			7.5	82
48025	Fe-CuNi (Ko)	L	AE 9 L	PVC	7.0	round	-10°C to +80°	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	7.0	round			7.5	79
48028	Fe-CuNi (Ko)	L	AE 9-2 LS	PVC	7.8	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C	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	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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galv. = galvanized

COMPENSATING CABLES

Part no.	Thermocouple element material in accordance with DIN 43713	Thermocouple type	Type	Core insulation	Jacket/ armoring jacket	Outer ø approx. mm	Form	Temperature range of insulation °C	Installation temperature range °C	min. bending radius x cable ø	Weight approx. kg/km
Single-pair: 2 x 1.5 mm² (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ø 1.38 mm)											
48033	FE-CuNi (Ko)	L	AE 9 M	PVC		7.0	round	-10°C to +80°	stationary	12	79
48034	SoNiCr-SoNi	K	AN 9 M	PVC	PVC	7.0	round		-25°C to +70°C	12	79
48035	SoPtRh-SoPt	S	AP 9 M	PVC		7.0	round		flexing	12	79
48261	Cu-CuNi (Ko)	U	AC 9 M	PVC		7.0	round	-5°C to +70°C	12	79	
48262	Fe-CuNi (Ko)	L	AE 9-2 MSY	PVC	PVC/galv. steel wire braid/ PVC	9.6	round	-10°C to +80°C	stationary	12	144
48263	SoNiCr-SoNi	K	AN 9-2 MSY	PVC		9.6	round		-25°C to +70°C	12	144
48264	SoPtRh-SoPt	S	AP 9-2 MSY	PVC		9.6	round		flexing	12	144
48265	Cu-CuNi (Ko)	U	AC 9-2 MSY	PVC		9.6	round	-5°C to +70°C	12	144	
48036	Fe-CuNi (Ko)	L	AE 10 L-SIL parallel	silicone	glass-fiber	5.5x8.2	oval	-60°C to +180°C	stationary	7.5	59
48037	SoNiCr-SoNi	K	AN 10 L-SIL parallel	silicone		5.5x8.2	oval		-25°C to +180°C	7.5	59
48038	SoPtRh-SoPt	S	AP 10 L-SIL parallel	silicone		5.5x8.2	oval		flexing	7.5	59
48266	Cu-CuNi (Ko)	U	AC 10 L-SIL parallel	silicone		5.5x8.2	oval	(short time +200°C)	7.5	59	
48039	Fe-CuNi (Ko)	L	AE 11 L	silicone	Glass-fiber/ galv. steel wire braid	6.3x9.0	oval	-60°C to +180°C	stationary	7.5	82
48040	SoNiCr-SoNi	K	AN 11 L	silicone		6.3x9.0	oval		-25°C to +180°C	7.5	82
48041	SoPtRh-SoPt	S	AP 11 L	silicone		6.3x9.0	oval		flexing	7.5	82
48267	Cu-CuNi (Ko)	U	AC 11 L	silicone		6.3x9.0	oval	(short time +200°C)	7.5	82	
48042	Fe-CuNi (Ko)	L	AE 11 Lr	silicone	Glass-fiber/ galv. steel wire braid	6.7	round	-60°C to +180°C	stationary	7.5	83
48043	SoNiCr-SoNi	K	AN 11 Lr	silicone		6.7	round		-25°C to +180°C	7.5	83
48044	SoPtRh-SoPt	S	AP 11 Lr	silicone		6.7	round		flexing	7.5	83
48268	Cu-CuNi (Ko)	U	AC 11 Lr	silicone		6.7	round	(short time +200°C)	7.5	83	
48045	Fe-CuNi (Ko)	L	AE 11 Mr	silicone	Glass-fiber/ galv. steel wire braid	6.5	round	-60°C to +180°C	stationary	12	83
48046	SoNiCr-SoNi	K	AN 11 Mr	silicone		6.5	round		-25°C to +180°C	12	83
48047	SoPtRh-SoPt	S	AP 11 Mr	silicone		6.5	round		flexing	12	83
48269	Cu-CuNi (Ko)	U	AC 11 Mr	silicone		6.5	round	(short time +200°C)	12	83	
48048	Fe-CuNi (Ko)	L	AE 12 L parallel	PVC	PVC	4.3x7.0	oval	-10°C to +80°C	stationary	7.5	69
48049	SoNiCr-SoNi	K	AN 12 L parallel	PVC		4.3x7.0	oval		-25°C to +70°C	7.5	69
48050	SoPtRh-SoPt	S	AP 12 L parallel	PVC		4.3x7.0	oval		flexing	7.5	69
48270	Cu-CuNi (Ko)	U	AC 12 L parallel	PVC		4.3x7.0	oval	-5°C to +70°C	7.5	69	
48481	Fe-CuNi	J	AF 12 L parallel	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	12	61
48052	SoNiCr-SoNi	K	AN 12 M parallel	PVC		4.2x6.8	oval		-25°C to +70°C	12	61
48053	SoPtRh-SoPt	S	AP 12 M parallel	PVC		4.2x6.8	oval		flexing	12	61
48271	Cu-CuNi (Ko)	U	AC 12 M parallel	PVC		4.2x6.8	oval	-5°C to +70°C	12	61	
48054	Fe-CuNi (Ko)	L	AE 13 L parallel	silicone	Glass-fiber	3.2x5.9	oval	-60°C to +180°C	stationary	7.5	45
48055	SoNiCr-SoNi	K	AN 13 L parallel	silicone		3.2x5.9	oval		-25°C to +180°C	7.5	45
48056	SoPtRh-SoPt	S	AP 13 L parallel	silicone		3.2x5.9	oval		flexing	7.5	45
48272	Cu-CuNi (Ko)	U	AC 13 L parallel	silicone		3.2x5.9	oval	(short time +200°C)	7.5	45	
48057	Fe-CuNi (Ko)	L	AE 13 M	silicone	Glass-fiber	3.5x6.0	oval	-60°C to +180°C	stationary	12	45
48058	SoNiCr-SoNi	K	AN 13 M	silicone		3.5x6.0	oval		-25°C to +180°C	12	45
48059	SoPtRh-SoPt	S	AP 13 M	silicone		3.5x6.0	oval		flexing	12	45
48273	Cu-CuNi (Ko)	U	AC 13 M	silicone		3.5x6.0	oval	(short time +200°C)	12	45	
48060	Fe-CuNi (Ko)	L	AE 14 L	silicone	Special foamed silicone mixture/ galv. Steel hose	11.7	round	-60°C to +180°C	stationary	7.5	196
48061	SoNiCr-SoNi	K	AN 14 L	silicone		11.7	round		-25°C to +180°C	7.5	196
48062	SoPtRh-SoPt	S	AP 14 L	silicone		11.7	round		flexing	7.5	196
48274	Cu-CuNi (Ko)	U	AC 14 L	silicone		11.7	round	(short time +200°C)	7.5	196	
48063	Fe-CuNi (Ko)	L	AE 15 L	silicone	silicone	7.7	round	-60°C to +180°C	stationary	7.5	76
48064	SoNiCr-SoNi	K	AN 15 L	silicone		7.7	round		-25°C to +180°C	7.5	76
48065	SoPtRh-SoPt	S	AP 15 L	silicone		7.7	round		flexing	7.5	76
48275	Cu-CuNi (Ko)	U	AC 15 L	silicone		7.7	round	(short time +200°C)	7.5	76	
48482	Fe-CuNi	J	AF 15 L	silicone		7.7	round		7.5	76	
48066	Fe-CuNi (Ko)	L	AE 15 LS	silicone	silicone/ galv. steel wire braid	7.8	round	-10°C to +180°C	stationary	7.5	105
48067	SoNiCr-SoNi	K	AN 15 LS	silicone		7.8	round		-25°C to +180°C	7.5	105
48068	SoPtRh-SoPt	S	AP 15 LS	silicone		7.8	round		flexing	7.5	105
48276	Cu-CuNi (Ko)	U	AC 15 LS	silicone		7.8	round	(short time +200°C)	7.5	105	
48277	Fe-CuNi (Ko)	L	AE 16 L-SIL parallel	silicone	-	2.8x5.6	oval	-10°C to +180°C	stationary	7.5	38
48278	SoNiCr-SoNi	K	AN 16 L-SIL parallel	silicone		2.8x5.6	oval		-25°C to +180°C	7.5	38
48279	SoPtRh-SoPt	S	AP 16 L-SIL parallel	silicone		2.8x5.6	oval		flexing	7.5	38
48280	Cu-CuNi (Ko)	U	AC 16 L-SIL parallel	silicone		2.8x5.6	oval	(short time +200°C)	7.5	38	
48281	Fe-CuNi (Ko)	L	AE 18 L	HELUFLO [®] -FEP	HELUFLO [®] -FEP	4.4	round	-100°C to 200°C	stationary	7.5	37
48282	SoNiCr-SoNi	K	AN 18 L	HELUFLO [®] -FEP		4.4	round		-25°C to +205°C	7.5	37
48283	SoPtRh-SoPt	S	AP 18 L	HELUFLO [®] -FEP		4.4	round		flexing	7.5	37
48284	Cu-CuNi (Ko)	U	AC 18 L	HELUFLO [®] -FEP		4.4	round	-25°C to +205°C	7.5	37	
48285	Fe-CuNi (Ko)	L	AE 19 L	HELUFLO [®] -FEP	PETP tape/ tin. Cu-round wire braid/ HELUFLO [®] -FEP	5.6	round	-100°C to 200°C	stationary	7.5	60
48286	SoNiCr-SoNi	K	AN 19 L	HELUFLO [®] -FEP		5.6	round		-25°C to +205°C	7.5	60
48287	SoPtRh-SoPt	S	AP 19 L	HELUFLO [®] -FEP		5.6	round		flexing	7.5	60
48288	Cu-CuNi (Ko)	U	AC 19 L	HELUFLO [®] -FEP		5.6	round	(short time +200°C)	7.5	60	

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Part no.	Thermocouple element material in accordance with DIN 43713	Thermocouple type	Core insulation	Jacket/armoring jacket	Outer ϕ approx. mm	Form	Temperature range of insulation °C	Installation temperature range °C	min. bending radius x cable ϕ	Weight approx. kg/km	
Single-pair: 2 x 1.5 mm² (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ϕ 1.38 mm)											
48289	Fe-CuNi (Ko)	L	AE 20 L	PVC	PETP tape/	8.0	round	-10°C to +80°C	stationary	7.5	75
48290	SoNiCr-SoNi	K	AE 20 L	PVC	bl. Cu-ground wire	8.0	round		-25°C to +70°C	7.5	75
48291	SoPtRh-SoPt	S	AE 20 L	PVC	0.5 mm ϕ /	8.0	round		flexing	7.5	75
48292	Cu-CuNi (Ko)	U	AE 20 L	PVC	Alu-tape/PVC	8.0	round		-5°C to +70°C	7.5	75
48293	Fe-CuNi (Ko)	L	AE 20 M	PVC	PETP tape/	8.2	round	-10°C to +80°C	stationary	12	82
48294	SoNiCr-SoNi	K	AE 20 M	PVC	bl. Cu-ground wire	8.2	round		-25°C to +70°C	12	82
48295	SoPtRh-SoPt	S	AE 20 M	PVC	0.5 mm ϕ /	8.2	round		flexing	12	82
48296	Cu-CuNi (Ko)	U	AE 20 M	PVC	Alu-tape/PVC	8.2	round		-5°C to +70°C	12	82
Multiple-pair: 2 pair (4 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ϕ 1.38 mm)											
48100	Fe-CuNi (Ko)	L	AE 9-4 L	PVC		8.3	round	-10°C to +80°C	stationary	7.5	125
48101	SoNiCr-SoNi	K	AN 9-4 L	PVC		8.3	round		-25°C to +70°C	7.5	125
48102	SoPtRh-SoPt	S	AP 9-4 L	PVC	PVC	8.3	round		flexing	7.5	125
48297	Cu-CuNi (Ko)	U	AC 9-4 L	PVC		8.3	round		-5°C to +70°C	7.5	125
48483	Fe-CuNi	J	AF 9-4 L	PVC		8.3	round		7.5	125	
48298	Fe-CuNi (Ko)	L	AE 9-4 LS	PVC		8.9	round	-10°C to +80°C	stationary	7.5	155
48299	SoNiCr-SoNi	K	AN 9-4 LS	PVC	PVC/	8.9	round		-25°C to +70°C	7.5	155
48300	SoPtRh-SoPt	S	AP 9-4 LS	PVC	galv. steel wire braid	8.9	round		flexing	7.5	155
48301	Cu-CuNi (Ko)	U	AC 9-4 LS	PVC		8.9	round		-5°C to +70°C	7.5	155
48137	Fe-CuNi (Ko)	L	AE 9-4 LSY	PVC		11.4	round	-10°C to +80°C	stationary	7.5	220
48138	SoNiCr-SoNi	K	AN 9-4 LSY	PVC	PVC/	11.4	round		-25°C to +70°C	7.5	220
48139	SoPtRh-SoPt	S	AP 9-4 LSY	PVC	galv. steel wire braid/	11.4	round		flexing	7.5	220
48302	Cu-CuNi (Ko)	U	AC 9-4 LSY	PVC	PVC	11.4	round		-5°C to +70°C	7.5	220
48303	Fe-CuNi (Ko)	L	AE 9-4 MSY	PVC		11.0	round	-10°C to +80°C	stationary	12	210
48304	SoNiCr-SoNi	K	AN 9-4 MSY	PVC	PVC/	11.0	round		-25°C to +70°C	12	210
48305	SoPtRh-SoPt	S	AP 9-4 MSY	PVC	galv. steel wire braid/	11.0	round		flexing	12	210
48306	Cu-CuNi (Ko)	U	AC 9-4 MSY	PVC	PVC	11.0	round		-5°C to +70°C	12	210
48307	Fe-CuNi (Ko)	L	AE 20-4 M	PVC	PETP tape/	10.8	round	-10°C to +80°C	stationary	12	137
48308	SoNiCr-SoNi	K	AN 20-4 M	PVC	bl. Cu-ground wire	10.8	round		-25°C to +70°C	12	137
48309	SoPtRh-SoPt	S	AP 20-4 M	PVC	0.5 mm ϕ /	10.8	round		flexing	12	137
48310	Cu-CuNi (Ko)	U	AC 20-4 M	PVC	Alu-tape/PVC	10.8	round		-5°C to +70°C	12	137
Multiple-pair: 4 x 1.5 mm² (L = stranded wire, conductor make-up 48 x 0.20 mm)											
48474	Fe-CuNi (Ko)	L	AE 11-4 Lr	silicone		7.8	round	-60°C to +180°C	stationary	7.5	11.8
48475	SoNiCr-SoNi	K	AE 11-4 Lr	silicone	Glass-fiber/galv. steel	7.8	round		-25°C to +180°C	7.5	11.8
48476	SoPtRh-SoPt	S	AE 11-4 Lr	silicone	wire braid	7.8	round		flexing	7.5	11.8
48477	Cu-CuNi (Ko)	U	AE 11-4 Lr	silicone		7.8	round		-25°C to +180°C (short time +200°C)	7.5	11.8
Multiple-pair: 3 pairs (6 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ϕ 1.38 mm)											
48103	Fe-CuNi (Ko)	L	AE 9-6 L	PVC		10.3	round	-10°C to +80°C	stationary	7.5	190
48104	SoNiCr-SoNi	K	AN 9-6 L	PVC		10.3	round		-25°C to +70°C	7.5	190
48105	SoPtRh-SoPt	S	AP 9-6 L	PVC	PVC	10.3	round		flexing	7.5	190
48311	Cu-CuNi (Ko)	U	AC 9-6 L	PVC		10.3	round		-5°C to +70°C	7.5	190
48484	Fe-CuNi	J	AF 9-6 L	PVC		10.3	round		7.5	190	
48312	Fe-CuNi (Ko)	L	AE 9-6 LS	PVC		10.9	round	-10°C to +80°C	stationary	7.5	226
48313	SoNiCr-SoNi	K	AN 9-6 LS	PVC	PVC/	10.9	round		-25°C to +70°C	7.5	226
48314	SoPtRh-SoPt	S	AP 9-6 LS	PVC	galv. steel wire braid	10.9	round		flexing	7.5	226
48315	Cu-CuNi (Ko)	U	AC 9-6 LS	PVC		10.9	round		-5°C to +70°C	7.5	226
48140	Fe-CuNi (Ko)	L	AE 9-6 LSY	PVC		13.4	round	-10°C to +80°C	stationary	7.5	292
48141	SoNiCr-SoNi	K	AN 9-6 LSY	PVC	PVC/	13.4	round		-25°C to +70°C	7.5	292
48142	SoPtRh-SoPt	S	AP 9-6 LSY	PVC	galv. steel wire braid/	13.4	round		flexing	7.5	292
48316	Cu-CuNi (Ko)	U	AC 9-6 LSY	PVC	PVC	13.4	round		-5°C to +70°C	7.5	292
48317	Fe-CuNi (Ko)	L	AE 9-6 MSY	PVC		12.5	round	-10°C to +80°C	stationary	12	272
48318	SoNiCr-SoNi	K	AN 9-6 MSY	PVC	PVC/	12.5	round		-25°C to +70°C	12	272
48319	SoPtRh-SoPt	S	AP 9-6 MSY	PVC	galv. steel wire braid/	12.5	round		flexing	12	272
48320	Cu-CuNi (Ko)	U	AC 9-6 MSY	PVC	PVC	12.5	round		-5°C to +70°C	12	272
48321	Fe-CuNi (Ko)	L	AE 20-6 M	PVC	PETP tape/	12.4	round	-10°C to +80°C	stationary	12	186
48322	SoNiCr-SoNi	K	AN 20-6 M	PVC	bl. Cu-ground wire	12.4	round		-25°C to +70°C	12	186
48323	SoPtRh-SoPt	S	AP 20-6 M	PVC	0.5 mm ϕ /	12.4	round		flexing	12	186
48324	Cu-CuNi (Ko)	U	AC 20-6 M	PVC	Alu-tape/PVC	12.4	round		-5°C to +70°C	12	186
Multiple-pair: 4 pairs (8 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm)											
48106	Fe-CuNi (Ko)	L	AE 9-8 L	PVC		11.0	round	-10°C to +80°C	stationary	7.5	238
48107	SoNiCr-SoNi	K	AN 9-8 L	PVC		11.0	round		-25°C to +70°C	7.5	238
48108	SoPtRh-SoPt	S	AP 9-8 L	PVC	PVC	11.0	round		flexing	7.5	238
48325	Cu-CuNi (Ko)	U	AC 9-8 L	PVC		11.0	round		-5°C to +70°C	7.5	238
48485	Fe-CuNi	J	AF 9-8 L	PVC		11.0	round		7.5	238	
48143	Fe-CuNi (Ko)	L	AE 9-8 LSY	PVC		14.0	round	-10°C to +80°C	stationary	7.5	410
48144	SoNiCr-SoNi	K	AN 9-8 LSY	PVC	PVC/	14.0	round		-25°C to +70°C	7.5	410
48145	SoPtRh-SoPt	S	AP 9-8 LSY	PVC	galv. steel wire braid/	14.0	round		flexing	7.5	410
48326	Cu-CuNi (Ko)	U	AC 9-8 LSY	PVC	PVC	14.0	round		-5°C to +70°C	7.5	410

L = stranded conductor
M = solid conductor
tin. = tinned
galv. = galvanized

COMPENSATING CABLES

Part no.	Thermocouple element material in accordance with DIN 43713	Thermocouple type	Core insulation	Jacket/ armoring jacket	Outer ø approx. mm	Form	Temperature range of insulation °C	Installation temperature range °C	min. bending radius x cable ø	Weight approx. kg/km
Multiple-pair: 5 pairs (10 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm)										
48109	FE-CuNi (Ko)	L	AE 9-10 L	PVC	13.0	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C	7.5	284
48110	SoNiCr-SoNi	K	AN 9-10 L	PVC	13.0	round			7.5	284
48111	SoPtRh-SoPt	S	AP 9-10 L	PVC	13.0	round			7.5	284
48327	Cu-CuNi (Ko)	U	AC 9-10 L	PVC	13.0	round			7.5	284
48486	FE-CuNi (Ko)	J	AF 9-10 L	PVC	13.0	round			7.5	284
48146	Fe-CuNi (Ko)	L	AE 9-10 LSY	PVC	16.5	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C	7.5	475
48147	SoNiCr-SoNi	K	AN 9-10 LSY	PVC	16.5	round			7.5	475
48148	SoPtRh-SoPt	S	AP 9-10 LSY	PVC	16.5	round			7.5	475
48328	Cu-CuNi (Ko)	U	AC 9-10 LSY	PVC	16.5	round			7.5	475
48328	Cu-CuNi (Ko)	U	AC 9-10 LSY	PVC	16.5	round			7.5	475
Multiple-pair: 6 pairs (12 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ø 1.38 mm)										
48112	Fe-CuNi (Ko)	L	AE 9-12 L	PVC	13.5	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C	7.5	320
48113	SoNiCr-SoNi	K	AN 9-12 L	PVC	13.5	round			7.5	320
48114	SoPtRh-SoPt	S	AP 9-12 L	PVC	13.5	round			7.5	320
48329	Cu-CuNi (Ko)	U	AC 9-12 L	PVC	13.5	round			7.5	320
48487	Fe-CuNi	J	AF 9-12 L	PVC	13.5	round			7.5	320
48330	Fe-CuNi (Ko)	L	AE 9-12 LS	PVC	14.2	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C	7.5	384
48331	SoNiCr-SoNi	K	AN 9-12 LS	PVC	14.2	round			7.5	384
48332	SoPtRh-SoPt	S	AP 9-12 LS	PVC	14.2	round			7.5	384
48333	Cu-CuNi (Ko)	U	AC 9-12 LS	PVC	14.2	round			7.5	384
48149	Fe-CuNi (Ko)	L	AE 9-12 LSY	PVC	17.5	round			-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C
48150	SoNiCr-SoNi	K	AN 9-12 LSY	PVC	17.5	round	7.5	483		
48151	SoPtRh-SoPt	S	AP 9-12 LSY	PVC	17.5	round	7.5	483		
48334	Cu-CuNi (Ko)	U	AC 9-12 LSY	PVC	17.5	round	7.5	483		
48335	Fe-CuNi (Ko)	L	AE 9-12 MSY	PVC	16.5	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C		
48336	SoNiCr-SoNi	K	AN 9-12 MSY	PVC	16.5	round			12	478
48337	SoPtRh-SoPt	S	AP 9-12 MSY	PVC	16.5	round			12	478
48338	Cu-CuNi (Ko)	U	AC 9-12 MSY	PVC	16.5	round			12	478
48339	Fe-CuNi (Ko)	L	AE 20-12 M	PVC	16.3	round			-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C
48340	SoNiCr-SoNi	K	AN 20-12 M	PVC	16.3	round	12	362		
48341	SoPtRh-SoPt	S	AP 20-12 M	PVC	16.3	round	12	362		
48342	Cu-CuNi (Ko)	U	AC 20-12 M	PVC	16.3	round	12	362		
Multiple-pair: 7 pairs (14 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm)										
48115	Fe-CuNi (Ko)	L	AE 9-14 L	PVC	14.5	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C	7.5	396
48116	SoNiCr-SoNi	K	AN 9-14 L	PVC	14.5	round			7.5	396
48117	SoPtRh-SoPt	S	AP 9-14 L	PVC	14.5	round			7.5	396
48343	Cu-CuNi (Ko)	U	AC 9-14 L	PVC	14.5	round			7.5	396
48488	Fe-CuNi	J	AF 9-14 L	PVC	14.5	round			7.5	396
48152	Fe-CuNi (Ko)	L	AE 9-14 LSY	PVC	18.5	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C	7.5	640
48153	SoNiCr-SoNi	K	AN 9-14 LSY	PVC	18.5	round			7.5	640
48154	SoPtRh-SoPt	S	AP 9-14 LSY	PVC	18.5	round			7.5	640
48344	Cu-CuNi (Ko)	U	AC 9-14 LSY	PVC	18.5	round			7.5	640
48344	Cu-CuNi (Ko)	U	AC 9-14 LSY	PVC	18.5	round			7.5	640
Multiple-pair: 8 pairs (16 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ø 1.38 mm)										
48118	Fe-CuNi (Ko)	L	AE 9-16 L	PVC	15.1	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C	7.5	419
48119	SoNiCr-SoNi	K	AN 9-16 L	PVC	15.1	round			7.5	419
48120	SoPtRh-SoPt	S	AP 9-16 L	PVC	15.1	round			7.5	419
48345	Cu-CuNi (Ko)	U	AC 9-16 L	PVC	15.1	round			7.5	419
48489	Fe-CuNi	J	AF 9-16 L	PVC	15.1	round			7.5	419
48346	Fe-CuNi (Ko)	L	AE 9-16 LS	PVC	16.1	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C	7.5	495
48347	SoNiCr-SoNi	K	AN 9-16 LS	PVC	16.1	round			7.5	495
48348	SoPtRh-SoPt	S	AP 9-16 LS	PVC	16.1	round			7.5	495
48349	Cu-CuNi (Ko)	U	AC 9-16 LS	PVC	16.1	round			7.5	495
48155	Fe-CuNi (Ko)	L	AE 9-16 LSY	PVC	19.3	round			-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C
48156	SoNiCr-SoNi	K	AN 9-16 LSY	PVC	19.3	round	7.5	623		
48157	SoPtRh-SoPt	S	AP 9-16 LSY	PVC	19.3	round	7.5	623		
48350	Cu-CuNi (Ko)	U	AC 9-16 LSY	PVC	19.3	round	7.5	623		
48351	Fe-CuNi (Ko)	L	AE 9-16 MSY	PVC	18.7	round	-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C		
48352	SoNiCr-SoNi	K	AN 9-16 MSY	PVC	18.7	round			12	616
48353	SoPtRh-SoPt	S	AP 9-16 MSY	PVC	18.7	round			12	616
48354	Cu-CuNi (Ko)	U	AC 9-16 MSY	PVC	18.7	round			12	616
48355	Fe-CuNi (Ko)	L	AE 20-16 M	PVC	16.8	round			-10°C to +80°C	stationary -25°C to +70°C flexing -5°C to +70°C
48356	SoNiCr-SoNi	K	AN 20-16 M	PVC	16.8	round	12	423		
48357	SoPtRh-SoPt	S	AP 20-16 M	PVC	16.8	round	12	423		
48358	Cu-CuNi (Ko)	U	AC 20-16 M	PVC	16.8	round	12	423		

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galv. = galvanized

COMPENSATING CABLES

Part no.	Thermocouple element material in accordance with DIN 43713	Thermocouple type	Core insulation	Jacket/armoring jacket	Outer ϕ approx. mm	Form	Temperature range of insulation °C	Installation temperature range °C	min. bending radius x cable ϕ	Weight approx. kg/km
Multiple-pair: 9 pairs (18 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm)										
48121	Fe-CuNi (Ko)	L	AE 9-18 L	PVC	16.5	round			7.5	480
48122	SoNiCr-SoNi	K	AE 9-18 L	PVC	16.5	round			7.5	480
48123	SoPtRh-SoPt	S	AE 9-18 L	PVC	16.5	round	-10°C to +80°C	stationary -25°C to +70°C flexing	7.5	480
48359	Cu-CuNi (Ko)	U	AE 9-18 L	PVC	16.5	round		-5°C to +70°C	7.5	480
48490	Fe-CuNi	J	AF 9-18 L	PVC	16.5	round			7.5	480
48158	Fe-CuNi (Ko)	L	AE 9-18 LSY	PVC	20.5	round			7.5	758
48159	SoNiCr-SoNi	K	AE 9-18 LSY	PVC	20.5	round	-10°C to +80°C	stationary -25°C to +70°C flexing	7.5	758
48160	SoPtRh-SoPt	S	AE 9-18 LSY	PVC	20.5	round		-5°C to +70°C	7.5	758
48360	Cu-CuNi (Ko)	U	AE 9-18 LSY	PVC	20.5	round			7.5	758
Multiple-pair: 10 pairs (20 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ϕ 1.38 mm)										
48124	Fe-CuNi (Ko)	L	AE 9-20 L	PVC	16.7	round			7.5	520
48125	SoNiCr-SoNi	K	AN 9-20 L	PVC	16.7	round			7.5	520
48126	SoPtRh-SoPt	S	AP 9-20 L	PVC	16.7	round	-10°C to +80°C	stationary -25°C to +70°C flexing	7.5	520
48361	Cu-CuNi (Ko)	U	AC 9-20 L	PVC	16.7	round		-5°C to +70°C	7.5	520
48491	Fe-CuNi	J	AF 9-20 L	PVC	16.7	round			7.5	520
48362	Fe-CuNi (Ko)	L	AE 9-20 LS	PVC	17.7	round			7.5	613
48363	SoNiCr-SoNi	K	AN 9-20 LS	PVC	17.7	round	-10°C to +80°C	stationary -25°C to +70°C flexing	7.5	613
48364	SoPtRh-SoPt	S	AP 9-20 LS	PVC	17.7	round		-5°C to +70°C	7.5	613
48365	Cu-CuNi (Ko)	U	AC 9-20 LS	PVC	17.7	round			7.5	613
48161	Fe-CuNi (Ko)	L	AE 9-20 LSY	PVC	20.9	round			7.5	752
48162	SoNiCr-SoNi	K	AN 9-20 LSY	PVC	20.9	round	-10°C to +80°C	stationary -25°C to +70°C flexing	7.5	752
48163	SoPtRh-SoPt	S	AP 9-20 LSY	PVC	20.9	round		-5°C to +70°C	7.5	752
48366	Cu-CuNi (Ko)	U	AC 9-20 LSY	PVC	20.9	round			7.5	752
48367	Fe-CuNi (Ko)	L	AE 9-20 MSY	PVC	20.3	round			12	744
48368	SoNiCr-SoNi	K	AN 9-20 MSY	PVC	20.3	round	-10°C to +80°C	stationary -25°C to +70°C flexing	12	744
48369	SoPtRh-SoPt	S	AP 9-20 MSY	PVC	20.3	round		-5°C to +70°C	12	744
48370	Cu-CuNi (Ko)	U	AC 9-20 MSY	PVC	20.3	round			12	744
48371	Fe-CuNi (Ko)	L	AE 20-20 M	PVC	20.3	round			12	542
48372	SoNiCr-SoNi	K	AN 20-20 M	PVC	20.3	round	-10°C to +80°C	stationary -25°C to +70°C flexing	12	542
48373	SoPtRh-SoPt	S	AP 20-20 M	PVC	20.3	round		-5°C to +70°C	12	542
48374	Cu-CuNi (Ko)	U	AC 20-20 M	PVC	20.3	round			12	542
Multiple-pair: 12 pairs (24 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ϕ 1.38 mm)										
48127	Fe-CuNi (Ko)	L	AE 9-24 L	PVC	19.0	round			7.5	614
48128	SoNiCr-SoNi	K	AN 9-24 L	PVC	19.0	round			7.5	614
48129	SoPtRh-SoPt	S	AP 9-24 L	PVC	19.0	round	-10°C to +80°C	stationary -25°C to +70°C flexing	7.5	614
48375	Cu-CuNi (Ko)	U	AC 9-24 L	PVC	19.0	round		-5°C to +70°C	7.5	614
48492	Fe-CuNi	J	AF 9-24 L	PVC	19.0	round			7.5	614
48376	Fe-CuNi (Ko)	L	AE 9-24 LS	PVC	20.2	round			7.5	738
48377	SoNiCr-SoNi	K	AN 9-24 LS	PVC	20.2	round	-10°C to +80°C	stationary -25°C to +70°C flexing	7.5	738
48378	SoPtRh-SoPt	S	AP 9-24 LS	PVC	20.2	round		-5°C to +70°C	7.5	738
48379	Cu-CuNi (Ko)	U	AC 9-24 LS	PVC	20.2	round			7.5	738
48164	Fe-CuNi (Ko)	L	AE 9-24 LSY	PVC	24.2	round			7.5	938
48165	SoNiCr-SoNi	K	AN 9-24 LSY	PVC	24.2	round	-10°C to +80°C	stationary -25°C to +70°C flexing	7.5	938
48166	SoPtRh-SoPt	S	AP 9-24 LSY	PVC	24.2	round		-5°C to +70°C	7.5	938
48380	Cu-CuNi (Ko)	U	AC 9-24 LSY	PVC	24.2	round			7.5	938
48381	Fe-CuNi (Ko)	L	AE 9-24 MSY	PVC	23.1	round			12	907
48382	SoNiCr-SoNi	K	AN 9-24 MSY	PVC	23.1	round	-10°C to +80°C	stationary -25°C to +70°C flexing	12	907
48383	SoPtRh-SoPt	S	AP 9-24 MSY	PVC	23.1	round		-5°C to +70°C	12	907
48384	Cu-CuNi (Ko)	U	AC 9-24 MSY	PVC	23.1	round			12	907
48385	Fe-CuNi (Ko)	L	AE 20-24 M	PVC	22.5	round			12	638
48386	SoNiCr-SoNi	K	AN 20-24 M	PVC	22.5	round	-10°C to +80°C	stationary -25°C to +70°C flexing	12	638
48387	SoPtRh-SoPt	S	AP 20-24 M	PVC	22.5	round		-5°C to +70°C	12	638
48388	Cu-CuNi (Ko)	U	AC 20-24 M	PVC	22.5	round			12	638
Multiple-pair: 16 pairs (32 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ϕ 1.38 mm)										
48389	Fe-CuNi (Ko)	L	AE 9-32 L	PVC	20.9	round			7.5	793
48390	SoNiCr-SoNi	K	AN 9-32 L	PVC	20.9	round			7.5	793
48391	SoPtRh-SoPt	S	AP 9-32 L	PVC	20.9	round	-10°C to +80°C	stationary -25°C to +70°C flexing	7.5	793
48392	Cu-CuNi (Ko)	U	AC 9-32 L	PVC	20.9	round		-5°C to +70°C	7.5	793
48493	Fe-CuNi	J	AF 9-32 L	PVC	20.9	round			7.5	793
48393	Fe-CuNi (Ko)	L	AE 9-32 LS	PVC	22.1	round			7.5	923
48394	SoNiCr-SoNi	K	AN 9-32 LS	PVC	22.1	round	-10°C to +80°C	stationary -25°C to +70°C flexing	7.5	923
48395	SoPtRh-SoPt	S	AP 9-32 LS	PVC	22.1	round		-5°C to +70°C	7.5	923
48396	Cu-CuNi (Ko)	U	AC 9-32 LS	PVC	22.1	round			7.5	923

L = stranded conductor
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tin. = tinned
galv. = galvanized

COMPENSATING CABLES

Part no.	Thermocouple element material in accordance with DIN 43713	Thermocouple type	Core insulation	Jacket/armor jacket	Outer ø approx. mm	Form	Temperature range of insulation °C	Installation temperature range °C	min. bending radius x cable ø	Weight approx. kg/km
Multiple-pair: 16 pairs (32 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ø 1.38 mm)										
48397	FE-CuNi (Ko)	L	AE 9-32 LSY	PVC	26.1	round	-10°C to +80°C	stationary	7.5	1141
48398	SoNiCr-SoNi	K	AN 9-32 LSY	PVC	26.1	round		-25°C to +70°C	7.5	1141
48399	SoPtRh-SoPt	S	AP 9-32 LSY	PVC	26.1	round		flexing	7.5	1141
48400	Cu-CuNi (Ko)	U	AC 9-32 LSY	PVC	26.1	round		-5°C to +70°C	7.5	1141
48401	Fe-CuNi (Ko)	L	AE 9-32 MSY	PVC	25.3	round	-10°C to +80°C	stationary	12	1130
48402	SoNiCr-SoNi	K	AN 9-32 MSY	PVC	25.3	round		-25°C to +70°C	12	1130
48403	SoPtRh-SoPt	S	AP 9-32 MSY	PVC	25.3	round		flexing	12	1130
48404	Cu-CuNi (Ko)	U	AC 9-32 MSY	PVC	25.3	round		-5°C to +70°C	12	1130
48405	Fe-CuNi (Ko)	L	AE 20-32 M	PVC	25.1	round	-10°C to +80°C	stationary	12	847
48406	SoNiCr-SoNi	K	AN 20-32 M	PVC	25.1	round		-25°C to +70°C	12	847
48407	SoPtRh-SoPt	S	AP 20-32 M	PVC	25.1	round		flexing	12	847
48408	Cu-CuNi (Ko)	U	AC 20-32 M	PVC	25.1	round		-5°C to +70°C	12	847
Multiple-pair: 18 pair (36 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ø 1.38 mm)										
48130	Fe-CuNi (Ko)	L	AE 9-36 L	PVC	22.1	round	-10°C to +80°C	stationary	7.5	904
48132	SoNiCr-SoNi	K	AN 9-36 L	PVC	22.1	round		-25°C to +70°C	7.5	904
48133	SoPtRh-SoPt	S	AP 9-36 L	PVC	22.1	round		flexing	7.5	904
48409	Cu-CuNi (Ko)	U	AC 9-36 L	PVC	22.1	round		-5°C to +70°C	7.5	904
48494	Fe-CuNi	J	AF 9-36 L	PVC	22.1	round		7.5	904	
48410	Fe-CuNi (Ko)	L	AE 9-36 LS	PVC	23.3	round	-10°C to +80°C	stationary	7.5	1040
48411	SoNiCr-SoNi	K	AN 9-36 LS	PVC	23.3	round		-25°C to +70°C	7.5	1040
48412	SoPtRh-SoPt	S	AP 9-36 LS	PVC	23.3	round		flexing	7.5	1040
48413	Cu-CuNi (Ko)	U	AC 9-36 LS	PVC	23.3	round		-5°C to +70°C	7.5	1040
48167	Fe-CuNi (Ko)	L	AE 9-36 LSY	PVC	27.3	round	-10°C to +80°C	stationary	7.5	1268
48169	SoNiCr-SoNi	K	AN 9-36 LSY	PVC	27.3	round		-25°C to +70°C	7.5	1268
48170	SoPtRh-SoPt	S	AP 9-36 LSY	PVC	27.3	round		flexing	7.5	1268
48414	Cu-CuNi (Ko)	U	AC 9-36 LSY	PVC	27.3	round		-5°C to +70°C	7.5	1268
48415	Fe-CuNi (Ko)	L	AE 9-36 MSY	PVC	26.1	round	-10°C to +80°C	stationary	12	1232
48416	SoNiCr-SoNi	K	AN 9-36 MSY	PVC	26.1	round		-25°C to +70°C	12	1232
48417	SoPtRh-SoPt	S	AP 9-36 MSY	PVC	26.1	round		flexing	12	1232
48418	Cu-CuNi (Ko)	U	AC 9-36 MSY	PVC	26.1	round		-5°C to +70°C	12	1232
48419	Fe-CuNi (Ko)	L	AE 20-36 M	PVC	26.0	round	-10°C to +80°C	stationary	12	944
48420	SoNiCr-SoNi	K	AN 20-36 M	PVC	26.0	round		-25°C to +70°C	12	944
48421	SoPtRh-SoPt	S	AP 20-36 M	PVC	26.0	round		flexing	12	944
48422	Cu-CuNi (Ko)	U	AC 20-36 M	PVC	26.0	round		-5°C to +70°C	12	944
Multiple-pair: 19 pairs (38 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm)										
48134	Fe-CuNi (Ko)	L	AE 9-38 L	PVC	22.5	round	-10°C to +80°C	stationary	7.5	937
48135	SoNiCr-SoNi	K	AN 9-38 L	PVC	22.5	round		-25°C to +70°C	7.5	937
48136	SoPtRh-SoPt	S	AP 9-38 L	PVC	22.5	round		flexing	7.5	937
48423	Cu-CuNi (Ko)	U	AC 9-38 L	PVC	22.5	round		-5°C to +70°C	7.5	937
48171	Fe-CuNi (Ko)	L	AE 9-38 LSY	PVC	26.5	round	-10°C to +80°C	stationary	7.5	1340
48172	SoNiCr-SoNi	K	AN 9-38 LSY	PVC	26.5	round		-25°C to +70°C	7.5	1340
48173	SoPtRh-SoPt	S	AP 9-38 LSY	PVC	26.5	round		flexing	7.5	1340
48424	Cu-CuNi (Ko)	U	AC 9-38 LSY	PVC	26.5	round		-5°C to +70°C	7.5	1340
Multiple-pair: 20 pairs (40 x 1.5 mm²) (L = stranded wire, conductor make-up 48 x 0.20 mm; M = solid conductor, conductor ø 1.38 mm)										
48425	Fe-CuNi (Ko)	L	AE 9-40 L	PVC	24.1	round	-10°C to +80°C	stationary	7.5	1032
48426	SoNiCr-SoNi	K	AN 9-40 L	PVC	24.1	round		-25°C to +70°C	7.5	1032
48427	SoPtRh-SoPt	S	AP 9-40 L	PVC	24.1	round		flexing	7.5	1032
48428	Cu-CuNi (Ko)	U	AC 9-40 L	PVC	24.1	round		-5°C to +70°C	7.5	1032
48429	Fe-CuNi (Ko)	L	AE 9-40 LS	PVC	25.3	round	-10°C to +80°C	stationary	7.5	1200
48430	SoNiCr-SoNi	K	AN 9-40 LS	PVC	25.3	round		-25°C to +70°C	7.5	1200
48431	SoPtRh-SoPt	S	AP 9-40 LS	PVC	25.3	round		flexing	7.5	1200
48432	Cu-CuNi (Ko)	U	AC 9-40 LS	PVC	25.3	round		-5°C to +70°C	7.5	1200
48433	Fe-CuNi (Ko)	L	AE 9-40 LSY	PVC	29.3	round	-10°C to +80°C	stationary	7.5	1446
48434	SoNiCr-SoNi	K	AN 9-40 LSY	PVC	29.3	round		-25°C to +70°C	7.5	1446
48435	SoPtRh-SoPt	S	AP 9-40 LSY	PVC	29.3	round		flexing	7.5	1446
48436	Cu-CuNi (Ko)	U	AC 9-40 LSY	PVC	29.3	round		-5°C to +70°C	7.5	1446
48437	Fe-CuNi (Ko)	L	AE 9-40 MSY	PVC	28.0	round	-10°C to +80°C	stationary	12	1381
48438	SoNiCr-SoNi	K	AN 9-40 MSY	PVC	28.0	round		-25°C to +70°C	12	1381
48439	SoPtRh-SoPt	S	AP 9-40 MSY	PVC	28.0	round		flexing	12	1381
48440	Cu-CuNi (Ko)	U	AC 9-40 MSY	PVC	28.0	round		-5°C to +70°C	12	1381
48441	Fe-CuNi (Ko)	L	AE 9-40M	PVC	26.0	round	-10°C to +80°C	stationary	12	1001
48442	SoNiCr-SoNi	K	AN 9-40 M	PVC	26.0	round		-25°C to +70°C	12	1001
48443	SoPtRh-SoPt	S	AP 9-40 M	PVC	26.0	round		flexing	12	1001
48444	Cu-CuNi (Ko)	U	AC 9-40 M	PVC	26.0	round		-5°C to +70°C	12	1001

L = stranded conductor
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tin. = tinned
galv. = galvanized

COMPENSATING CABLES

Part no.	Thermocouple element material in accordance with DIN 43713	Thermocouple type	Core insulation	Jacket/armoring jacket	Outer ø approx. mm	Form	Temperature range of insulation °C	Installation temperature range °C	min. bending radius x cable ø	Weight approx. kg/km
Single-pair: 2 x 0.22 mm² (L = stranded wire, conductor make-up 7 x 0.20 mm)										
48200	Fe-CuNi (Ko)	L	AE 1 L	PVC	1.0	round	-10°C to +80°C	stationary	7.5	10
48201	SoNiCr-SoNi	K	AE 1 L	PVC	1.0	round				
48202	SoPtRh-SoPt	S	AE 1 L	PVC	1.0	round		flexing	7.5	10
48460	Cu-CuNi (Ko)	U	AE 1 L	PVC	1.0	round		-5°C to +70°C	7.5	10
Single-pair: 2 x 0.22 mm² (L = stranded wire, conductor make-up 7 x 0.20 mm)										
48203	Fe-CuNi (Ko)	L	AE 9-022	PVC	4.0	round	-10°C to +80°C	stationary	7.5	22
48204	SoNiCr-SoNi	K	AE 9-022	PVC	4.0	round				
48205	SoPtRh-SoPt	S	AE 9-022	PVC	4.0	round		flexing	7.5	22
48461	Cu-CuNi (Ko)	U	AE 9-022	PVC	4.0	round		-5°C to +70°C	7.5	22
48206	Fe-CuNi (Ko)	L	AE 5-022	PVC	4.9	round	-10°C to +80°C	stationary	7.5	31
48207	SoNiCr-SoNi	K	AN 5-022	PVC	4.9	round				
48208	SoPtRh-SoPt	S	AP 5-022	PVC	4.9	round		flexing	7.5	31
48462	Cu-CuNi (Ko)	U	AC 5-022	PVC	4.9	round		-5°C to +70°C	7.5	31
48463	Fe-CuNi (Ko)	L	AE 15-022	glass-fiber	3.4	round	-40°C to +200°C	stationary	7.5	16
48464	SoNiCr-SoNi	K	AN 15-022	glass-fiber	3.4	round				
48465	SoPtRh-SoPt	S	AP 15-022	glass-fiber	3.4	round		flexing	7.5	16
48466	Cu-CuNi (Ko)	U	AC 15-022	glass-fiber	3.4	round		(short time +200°C)	7.5	16
48209	Fe-CuNi (Ko)	L	AE 15-G 022	glass-fiber	3.9	round	-40°C to +200°C	stationary	7.5	22
48210	SoNiCr-SoNi	K	AN 15-G 022	glass-fiber	3.9	round				
48211	SoPtRh-SoPt	S	AP 15-G 022	glass-fiber	3.9	round		flexing	7.5	22
48467	Cu-CuNi (Ko)	U	AC 15-G 022	glass-fiber	3.9	round		(short time +200°C)	7.5	22
48212	Fe-CuNi (Ko)	L	AE (GI-SIL-GI-S)	glass-fiber	5.0	round	-40°C to +200°C	stationary	7.5	25
48213	SoNiCr-SoNi	K	AN (GI-SIL-GI-S)	glass-fiber	5.0	round				
48214	SoPtRh-SoPt	S	AP (GI-SIL-GI-S)	glass-fiber	5.0	round		flexing	7.5	25
48468	Cu-CuNi (Ko)	U	AC (GI-SIL-GI-S)	glass-fiber	5.0	round		(short time +200°C)	7.5	25
Single-pair: 2 x 0.5 mm² (L = stranded wire, conductor make-up 16 x 0.20 mm)										
48215	Fe-CuNi (Ko)	L	AE (GI-SIL)	glass-fiber	4.6	round	-40°C to +200°C	stationary	7.5	18
48216	SoNiCr-SoNi	K	AN (GI-SIL)	glass-fiber	4.6	round				
48217	SoPtRh-SoPt	S	AP (GI-SIL)	glass-fiber	4.6	round		flexing	7.5	18
48469	Cu-CuNi (Ko)	U	AC (GI-SIL)	glass-fiber	4.6	round		-25°C to +200°C	7.5	18
Single-pair: 2 x 0.75 mm² (L = stranded wire, conductor make-up 24 x 0.20 mm)										
48218	Fe-CuNi (Ko)	L	AE (PVC-PVC)	PVC	6.0	round	-10°C to +80°C	stationary	7.5	25
48219	SoNiCr-SoNi	K	AN (PVC-PVC)	PVC	6.0	round				
48220	SoPtRh-SoPt	S	AP (PVC-PVC)	PVC	6.0	round		flexing	7.5	25
48470	Cu-CuNi (Ko)	U	AC (PVC-PVC)	PVC	6.0	round		-5°C to +70°C	7.5	25
Multiple-pair: 4 x 0.22 mm² (stranded wire, conductor make-up 7 x 0.20 mm)										
48221	Fe-CuNi (Ko)	L	AE (PVC-PVC)	PVC	6.0	round	-10°C to +80°C	stationary	7.5	33
48222	SoNiCr-SoNi	K	AN (PVC-PVC)	PVC	6.0	round				
48223	SoPtRh-SoPt	S	AP (PVC-PVC)	PVC	6.0	round		flexing	7.5	33
48471	Cu-CuNi (Ko)	U	AC (PVC-PVC)	PVC	6.0	round		-5°C to +80°C	7.5	33
48224	Fe-CuNi (Ko)	L	AE (PVC-C-PVC)	PVC	6.0	round	-10°C to +80°C	stationary	7.5	37
48225	SoNiCr-SoNi	K	AN (PVC-C-PVC)	PVC	6.0	round				
48226	SoPtRh-SoPt	S	AP (PVC-C-PVC)	PVC	6.0	round		flexing	7.5	37
48472	Cu-CuNi (Ko)	U	AC (PVC-C-PVC)	PVC	6.0	round		-5°C to +80°C	7.5	37
48227	Fe-CuNi (Ko)	L	AE (GIL-SIL)	glass-fiber	6.0	round	-40°C to +200°C	stationary	7.5	35
48228	SoNiCr-SoNi	K	AN (GIL-SIL)	glass-fiber	6.0	round				
48229	SoPtRh-SoPt	S	AP (GIL-SIL)	glass-fiber	6.0	round		flexing	7.5	35
48473	Cu-CuNi (Ko)	U	AC (GIL-SIL)	glass-fiber	6.0	round		-25°C to +180°C	7.5	35

L = stranded conductor
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galv. = galvanized