

# COMPENSATING AND EXTENSION CABLES

## FEP insulated cables A 18 L · A 18-022 L A 19 L · A 19-022 L with overall copper screen



A 18 L · A 18-022 L



A 19 L · A 19-022 L

### Construction:

Insulation:	FEP
Stranding:	2 cores together
Wrapping:	A 18 L, A 18-022 L: PETP foil
Screen:	A 19 L, A 19-022 L: tinned copper braiding
Sheath material:	FEP
Shape:	round
Conductor construction:	strand

### Technical data:

Min. bending radius:	12 x d
Radiation resistance:	1 x 10 <sup>7</sup> cJ/kg
Temperature range of insulation:	fixed laying: -90/+180 °C flexible application: -55/+180 °C
Insulation resistance:	> 1MΩ x km
Fire performance:	no flame propagation acc. to IEC 60332 + EN 60332 Cat. C resp. D (see page N/19). Flame retardant and self-extinguishing IEC 60332-1-2 + EN 60332-1-2
Chem. resistance:	very good against fats, oils, salts and acids
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

Type:	A 18 L	A 18-022 L	A 19 L	A 19-022 L
Conductor cross section:	1,5 mm <sup>2</sup>	0,22 mm <sup>2</sup>	1,5 mm <sup>2</sup>	0,22 mm <sup>2</sup>
Outer diameter:	approx. 4,8 mm	approx. 2,5 mm	approx. 5,4 mm	approx. 3,0 mm
Weight/100m:	approx. 4,2 kg	approx. 1,0 kg	approx. 5,6 kg	approx. 1,9 kg

### DIN IEC 584

for thermocouple	EMK at 100 °C in mV	cable type	A 18 L item no.	A 18-022 L item no.	A 19 L item no.	A 19-022 L item no.
Type T	4,28	TX	04338958	04331958	04358958	04351958
Type J	5,27	JX	04338952	04331952	04358952	04351952
Type K	4,10	KCA	04338995	04331995	04358995	04351995
Type K	4,10	KCB	04338999	04331999	04358999	04351999
Type K	4,10	KX	04338954	04331954	04358954	04351954
Type E	6,32	EX	04338953	04331953	04358953	04351953
Type R/S	0,65	R/SCB	04338997	04331997	04358997	04351997
Type N	2,77	NC	04338991	04331991	04358991	04351991

We also manufacture compensating and extension cables colour coded to DIN VDE 43714 – 06/79 and the basic values laid down in DIN VDE 43710 which was withdrawn in April 1994.

### DIN 43710 / 43714 (not valid for type B)

for thermocouple	EMK at 100 °C in mV	cable type	A 18 L item no.	A 18-022 L item no.	A 19 L item no.	A 19-022 L item no.
Type L	5,37	LX	04338992	04331992	04358992	04351992
Type K	4,10	KCA	04338994	04331994	04358994	04351994
Type R/S	0,65	R/SCB	04338996	04331996	04358996	04351996
Type U	4,25	UX	04338998	04331998	04358998	04351998
*Type B	0,00	BC-100	04338901	04331901	04358901	04351901
*Type B	0,033	BC-200	04338902	04331902	04358902	04351902

\*Not standardized compensating cable for thermocouples type B with application temperatures up to 100°C resp. 200 °C.  
C = compensating cables · X = extension cables