

Compensation & Extension Cables

FEP insulated cables

A 18 L · A 18-022 L · A 19 L · A 19-022 L with overall copper shield



A 18 L · A 18-022 L



A 19 L · A 19-022 L

Construction:

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

Technical data:

Min. bending radius:	12 x O.D.
Radiation resistance:	1 x 10 ⁷ cJ/kg
Temperature range of insulation:	<i>static:</i> -90/+180°C <i>flexible:</i> -55/+180°C
Insulation resistance:	> 1MΩ x km
Burning characteristics:	no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 Cat. C resp. D Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2.
Chemical resistance:	very good against fats, oils, salts and acids
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Type:	A 18 L:	A 18-022 L:	A 19 L:	A 19-022 L:
Conductor cross section:	1.5 mm ²	0.22 mm ²	1.5 mm ²	0.22 mm ²
Outer diameter:	approx. 4.8 mm	approx. 2.5 mm	approx. 5.5 mm	approx. 3.0 mm
Weight/100m:	approx. 4.2 kg	approx. 1.0 kg	approx. 5.9 kg	approx. 1.9 kg

IEC 60584

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	4338958	4331958	4358958	4351958
Type J	5.27	JX	4338952	4331952	4358952	4351952
Type K	4.10	KCA	4338995	4331995	4358995	4351995
Type K	4.10	KCB	4338999	4331999	4358999	4351999
Type K	4.10	KX	4338954	4331954	4358954	4351954
Type E	6.32	EX	4338953	4331953	4358953	4351953
Type R/S	0.65	R/SCB	4338997	4331997	4358997	4351997
Type N	2.77	NC	4338991	4331991	4358991	4351991

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

We continue to manufacture compensating and extension cables with color code acc. to DIN 43714 and the basic values of DIN 43710.

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	4338992	4331992	4358992	4351992
Type K	4.10	KCA	4338994	4331994	4358994	4351994
Type R/S	0.65	R/SCB	4338996	4331996	4358996	4351996
Type U	4.25	UX	4338998	4331998	4358998	4351998
Type B*	0.00	BC-100	4338901	4331901	4358901	4351901
Type B*	0.033	BC-200	4338902	4331902	4358902	4351902

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