








Encapsulated Gages (KHGX, KHCV, KHCR, KHCS, KHCM, and KHC)

The specifications on this page are the reference values and may be changed on operating conditions.

Patterns, Gage Resistance, Gage Factor	Models	Dimensions (mm)		Remarks	
		Gage length	Flange Length Width		
950°C (Static/dynamic) ●KHGX Encapsulated Gage Uniaxial, 2-element, temperature-compensation type  *The above picture is KHGX-10-120-G13-11 C2MV.	Resistance: 120Ω Gage factor (950°C): Approx. 1.5 Material: NCF 600 Recommended amplifier: UCAM-550A, CDV Installation Method and Operating Temperature Spot welding, -196 to 950°C The following models are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.	10	20	3	Min. radius of curvature R75
	KHGX-10-120-G13-11 C2MV KHGX-10-120-G13-13 C2MV				
800°C (Dynamic) ●KHCV Encapsulated Gage Uniaxial, 1-element  *The above picture is KHCV-5-120-G17 C2MV.	Resistance: 120Ω Gage factor (800°C): Approx. 1.2 Material: NCF 600 Installation Method and Operating Temperature Spot welding, 25 to 800°C The following models are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.	5	10	3	Min. radius of curvature R15
	KHCV-5-120-G17 C2MV				
750°C (Static/dynamic) ●KHCR Encapsulated Gage Uniaxial, 2-element, temperature-compensation type  *The above picture is KHCR-5-120-G16-11 C2MV.	Resistance: 120Ω Gage factor (750°C): Approx. 1.2 Material: NCF 600 Installation Method and Operating Temperature Spot welding, 25 to 750°C The following models are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.	5	10	3	Min. radius of curvature R15
	KHCR-5-120-G16-11 C2MV KHCR-5-120-G16-13 C2MV KHCR-5-120-G16-16 C2MV				
750°C (Static/dynamic) ●KHCS Encapsulated Gages Uniaxial, 2-element, temperature-compensation type  *The above picture is KHCS-10-120-G12B-11 C2MV.	Resistance: 120Ω Gage factor (750°C): Approx. 1.7 Material: NCF 600 Installation Method and Operating Temperature Spot welding, -196 to 750°C The following models are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.	10	20	3	Min. radius of curvature R20
	KHCS-10-120-G12B-11 C2MV KHCS-10-120-G12B-13 C2MV KHCS-10-120-G12B-16 C2MV				
650°C (Static/dynamic) ●KHCM Encapsulated Gages Uniaxial, 2-element, temperature-compensation type Resistance: 120Ω Gage factor (650°C): Approx. 1.8 for gage length 10 mm Approx. 1.4 for gage length 5 mm Material: NCF 600  *The above picture is KHCM-10-120-G15-11 C2MV.	Resistance: 120Ω Gage factor (750°C): Approx. 1.7 Material: NCF 600 Installation Method and Operating Temperature Spot welding, -196 to 650°C The following models are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.	10	20	3	Min. radius of curvature R20
	KHCM-10-120-G15-(11, 13, 16) C2MV KHCM-5-120-G15-(11, 13, 16) C2MV				
550°C (Dynamic) 500°C (Static) ●KHC Encapsulated Gage Uniaxial, 2-element, temperature-compensation type Resistance: 120 Ω Gage factor (500°C): Approx. 1.75 for gage length 20 mm Approx. 1.5 for gage length 10 mm Material: NCF 600  *The above picture is KHC-10-120-G8-11 C2MV.	Resistance: 120 Ω Gage factor (500°C): Approx. 1.75 for gage length 20 mm Approx. 1.5 for gage length 10 mm Material: NCF 600 Installation Method and Operating Temperature Spot welding, -196 to 550°C The following models are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.	20	30	4	Min. radius of curvature R25
	KHC-20-120-G8-(11, 13, 16) C2MV KHC-10-120-G8-(11, 13, 16) C2MV				
Uniaxial, 2-element, temperature-compensation type Resistance: 120 Ω Gage factor (500°C): Approx. 1.75 for gage length 20 mm Approx. 1.5 for gage length 10 mm Material: SUS 321  *The above picture is KHC-10-120-G9-11 C2MV.	The following models are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.	20	30	5	Min. radius of curvature R25
	KHC-20-120-G9-(11, 13, 16) C2MV KHC-10-120-G9-(11, 13, 16) C2MV				



Strain Gages

Outline

Lead-wire cable

General

Waterproof

Concrete

Composite material
PCB
Plastics

Ultra-small strain
High temp.
Low temp.

High elongation

Non-magneto
resistive

Hydrogen gas
Bending

With protector
Embedded

Crack

Adhesive
Coating agent

Custom-
designed