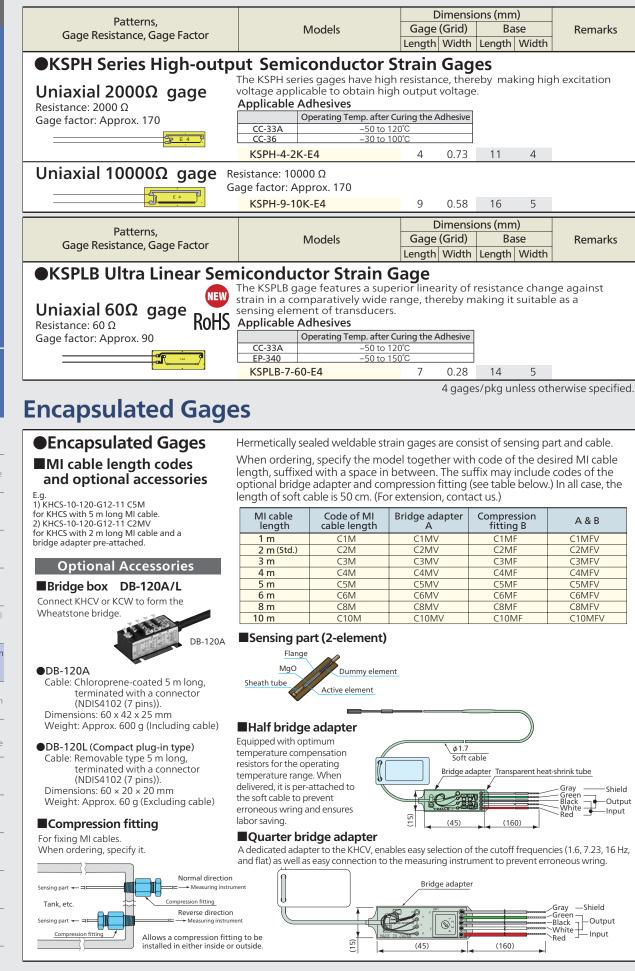
Gages for Ultra-small Strain Measurement (KSPH & KSPLB)





Outline

Lead-wire cable

General

Waterproof

Concrete

Composite material PCB Plastics

Ultra-small strain High temp. Low temp.

High elongation

Nonmagnetoresistive

Hydrogen gas Bending

With protector

Embedded

Crack

Adhesive Coating agent

Customdesigned

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

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

· · · ·	is page are the reference values of	and may be changed on opera Dimensions (mm)		
Patterns, Gage Resistance, Gage Factor	Models	Gage length	Flange	Remarks
		Gagelength	Length Wi	dth
950°C (Static/dynamic) ●KHCX Encapsulated Gage	Resistance: 120Ω Gage factor (950°C Recommerded amplifier: UCAM-550A		/laterial: Incor	nel 600 (NCF 600)
Uniaxial, 2-element, temperature-compensation type	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.			
	KHCX-10-120-G13-11 C2MV KHCX-10-120-G13-13 C2MV	10	20	3 Min. radius of curvature R75
800°C (Dynamic) ●KHCV Encapsulated Gage	Resistance: 120Ω Gage factor (800°C): Approx. 1.2 N	/laterial: Incor	nel 600 (NCF 600)
Uniaxial, 1-element ČE	Installation Method and Operating Temperature Spot welding, 25 to 800°C			
	The following models are delivered v pre-attached.	with MI cable 2	m long and so	oft cable 0.5 m long Min. radius of
	KHCV-5-120-G17 C2MV	5	10	3 curvature R15
750°C (Static/dynamic) ●KHCR Encapsulated Gage	Resistance: 120Ω Gage factor (750°C Installation Method and Operating Temperature): Approx. 1.2 N Spot welding,		, , , , , , , , , , , , , , , , , , ,
Uniaxial, 2-element, temperature-compensation type	The following models are delivered v pre-attached.	with MI cable 2	m long and so	oft cable 0.5 m long
	KHCR-5-120-G16-11 C2MV KHCR-5-120-G16-13 C2MV KHCR-5-120-G16-16 C2MV	5	10	3 Min. radius of curvature R15
750°C (Static/dynamic) ●KHCS Encapsulated Gages	Resistance: 120Ω Gage factor (750°C Installation Method and	:): Approx. 1.8 M Spot welding,		
Uniaxial, 2-element, temperature-compensation type	Operating Temperature The following models are delivered w pre-attached.			
	KHCS-10-120-G12-11 C2MV			
	KHCS-10-120-G12-13 C2MV KHCS-10-120-G12-16 C2MV	10	20	3 Min. radius of curvature R20
650°C (Static/dynamic) ●KHCM Encapsulated Gages				
temperature-compensation type	Installation Method and Operating Temperature Spot welding, –196 to 650°C			
Resistance: 120Ω Gage factor (650°C): Approx. 1.8 for gage length 10 mm Approx. 1.4 for gage length 5 mm Material: Inconel 600 (NCF 600)	The following models are delivered v pre-attached.	with MI cable 2	m long and so	
	KHCM-10-120-G15-(11, 13, 16) C2N	//V 10	20 3	Min. radius of curvature R20
	KHCM-5-120-G15-(11, 13, 16) C2M	V 5	10	B Min. radius of curvature R15
550°C (Dynamic) 500°C (Stat •KHC Encapsulated Gage Uniaxial, 2-element,	Installation Method and Operating Temperature	Spot welding,	–196 to 550	°C
tomporature componention tupo	The following models are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.			
Resistance: 120 Ω Gage factor (500°C): Approx. 1.75 for gage length 20 mm	The following models are delivered v	WITH IVILCADIE 2 I	m long and so	off cable 0.5 m long
Resistance: 120 Ω Gage factor (500°C):	KHC-20-120-G8-(11, 13, 16) C2MV	20	5	4 Min. radius of curvature R25
Resistance: 120 Ω Gage factor (500°C): Approx. 1.75 for gage length 20mm Approx. 1.5 for gage length 10mm	The following models are delivered v pre-attached.		30 4	Min. radius of
Resistance: 120 Ω Gage factor (500°C): Approx. 1.75 for gage length 20 mm Approx. 1.5 for gage length 10 mm Material: Inconel 600 (NCF 600) Uniaxial, 2-element, temperature Resistance: 120 Ω Gage factor (500°C):	KHC-20-120-G8-(11, 13, 16) C2MV KHC-10-120-G8-(11, 13, 16) C2MV	20 10	30 4 16.5 4	4 Min. radius of curvature R25 4 Min. radius of curvature R20
Gage factor (500°C): Approx. 1.75 for gage length 20 mm Approx. 1.5 for gage length 10 mm Material: Inconel 600 (NCF 600) Uniaxial, 2-element, temperature Resistance: 120 Ω	The following models are delivered v pre-attached. KHC-20-120-G8-(11, 13, 16) C2MV KHC-10-120-G8-(11, 13, 16) C2MV e-compensation type The following models are delivered v pre-attached.	20 10 vith MI cable 2 r	30 4 16.5 4	4 Min. radius of curvature R25 4 Min. radius of curvature R20 oft cable 0.5 m long 5 Min. radius of
Resistance: 120 Ω Gage factor (500°C): Approx. 1.75 for gage length 20 mm Approx. 1.5 for gage length 10 mm Material: Inconel 600 (NCF 600) Uniaxial, 2-element, temperature Resistance: 120 Ω Gage factor (500°C): Approx. 1.75 for gage length 20 mm Approx. 1.5 for gage length 10 mm	KHC-20-120-G8-(11, 13, 16) C2MV KHC-10-120-G8-(11, 13, 16) C2MV compensation type The following models are delivered v	20 10	30 4 16.5 4 m long and so 30 !	4 Min. radius of curvature R25 4 Min. radius of curvature R20 oft cable 0.5 m long

STRAIN GAGES

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Strain Gages

Outline

Lead-wire cable

General

Waterproof

Concrete

Composite material PCB

Plastics

Ultra-small strain High temp. Low temp.

High elongation

Nonnagnetoresistive

Hydrogen gas Bending

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Crack

Adhesive Coating agent

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1-38

1 gage/ pkg