Pattern, Gage Resistance, Gage Factor	Model	Dimensions (mm) Grid Length	Grid Width	Base Length	Base Width	Remarks
●KSPH Series High-Output Semiconductor Gages						
Uniaxial 2000Ω gage Resistance : 2000Ω , Gage factor : Approx. 170 The KSPH series gages have the resistance especially increased, thereby making high bridge voltage applicable to obtain high output voltage. Applicable Adhesives and Operating Temperature Range after Curing PC-12B : -50 to 150˚C CC-33A : -50 to 120˚C CC-36 : -30 to 100˚C	KSPH-4-2K-E4	4	0.73	11	4	
Uniaxial 10000Ω gage Resistance : 10000Ω, Gage factor : Approx. 170	KSPH-9-10K-E4	9	0.58	16	5	
●KSPL Ultra Linear Semiconductor Gage						
Uniaxial 60Ω gage Resistance : 60Ω , Gage factor : Approx. 90 The KSPL gage features a superior linearity of resistance change against strain in a comparatively wide range, thereby making it suitable as a sensing element of transducers. Applicable Adhesives and Operating Temperature Range after Curing CC-33A : -50 to 120˚C CC-36 : -30 to 100˚C PC-12B : -50 to 150˚C	KSPL-7-60-E4	7	0.28	14	5	

A minimum quantity 10 piece

Encapsulated Strain Gages

Encapsulated Strain Gages

Encapsulated strain gages are 2-element, temperature compensation gages applicable at high temperatures. The capsule has active and dummy gages embedded in a metal tube filled with insulation (MgO). The leadwire cable is composed of an MI cable and a soft cable, 3 conductors each, for easy handling. Also available is a bridge adapter which is connected directly to the terminal of the soft cable.

Extension of MI Cable/Soft Cable

Extension of MI Cable

The MI cable can be extended to 0.5, 1, 1.5, 2 m and thereafter by every 1 m step to 30 m. Since the MI cable resistance of the KHCD gage is as high as approximately 40 /m reciprocated, its extension considerably reduces the gage factor. Thus, it is recommended to extend the soft cable.

Extension of Soft Cable

The soft cable can be extended up to 30 m by every 1 m step.

When ordering, suffix the code for the lengths of MI cable and soft cable to the model number with a space in between.

Examples:

1) KHCS-10-120-G12-11 C6M10
The gage is delivered with MI cable 6 m long and soft cable 10 m long.
(C6 denotes MI cable 6 m long and M10, soft cable 10 m long.)

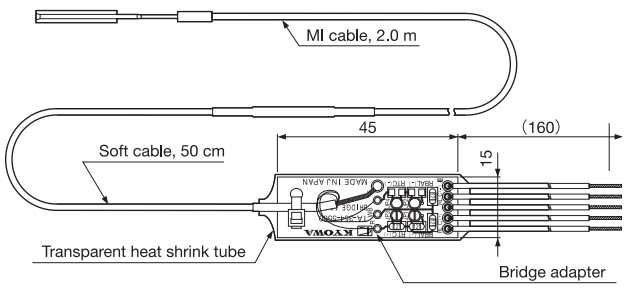
2) KHCS-10-120-G12-11 C6M10V
The gage is delivered with bridge adapter pre-attached (except for KHCD).
(V after cable codes denotes bridge adapter pre-attached.)

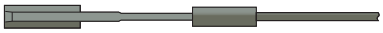
3) KHCS-10-120-G12-11 C6M10F
The gage is delivered with compression fitting (cable extractor; except for KHCD).
(F after cable codes denotes compression fitting pre-attached.)

4) KHCS-10-120-G12-11 C6M10FV
The gage is delivered with both bridge adapter and compression fitting pre-attached (except for KHCD).

Bridge Adapter

The bridge adapter has the most suitable temperature compensation resistor for the operating temperature range mounted to the board. It is connected to the soft cable when delivered. It eliminates any possible erroneous wiring and ensures labor-saving. (excluding the KHCD gage).



Pattern, Gage Resistance, Gage Factor	Model	Dimensions (mm) Grid Length	Grid Width	Base Length	Base Width	Remarks
950°C (Static/dynamic) **●KHCX Encapsulated Gage** Uniaxial, 2-element, temperature-compensation type	Resistance : 120Ω, Gage factor (950°C) : Approx. 1.5, Material : Inconel 600 (NCF 600) Installation Method and Operating Temperature Range: Spot welding: -196 to 950°C The following models with the standard leadwire cable code C2M are delivered with MI cable 2m long and soft cable 0.5m long pre-attached					
	KHCX-10-120-G13-11 C2MV KHCX-10-120-G13-13 C2MV	10	–	20	3	Minimum radial curvature of R75
800°C (Dynamic) **●KHCV Encapsulated Gage** Uniaxial, 1-element active	Resistance : 120Ω, Gage factor (800°C) : Approx. 1.2, Material : Inconel 600 (NCF 600) Installation Method and Operating Temperature Range: Spot welding: 25 to 800°C The following models with the standard leadwire cable code C2M are delivered with MI cable 2m long and soft cable 0.5m long pre-attached					
	KHCV-5-120-G17 C2MV	5	–	10	3	Minimum radial curvature of R15
750°C (Static/dynamic) **●KHCR Encapsulated Gage** Uniaxial, 2-element, temperature-compensation type	Resistance : 120Ω, Gage factor (750°C) : Approx. 1.2, Material : Inconel 600 (NCF 600) Installation Method and Operating Temperature Range: Spot welding: 25 to 750°C The following models with the standard leadwire cable code C2M are delivered with MI cable 2m long and soft cable 0.5m long pre-attached					
	KHCR-5-120-G16-11 C2MV KHCR-5-120-G16-13 C2MV KHCR-5-120-G16-16 C2MV	5	–	10	3	Minimum radial curvature of R15
Dynamic Strain Measurement at 750°C **●KHCS Series** **Encapsulated Gages for Static** Uniaxial, 2-element, temperature-compensation type	Resistance : 120Ω, Gage factor (750°C) : Approx. 1.8, Material : Inconel 600 (NCF 600) Installation Method and Operating Temperature Range: Spot welding –196 to 750°C The following models with the standard leadwire cable code C2M are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.					
	KHCS-10-120-G12-11 C2MV KHCS-10-120-G12-13 C2MV KHCS-10-120-G12-16 C2MV	10	–	20	3	Minimum radial curvature of R20
Dynamic Strain Measurement at 650°C **●KHCM Series** **Encapsulated Gages for Static** Uniaxial, 2-element, temperature-compensation type	Resistance : 120Ω, Gage factor (650°C) : Approx. 1.8 for gage length 10 mm, Gage factor (650°C) : Approx. 1.4 for gage length 5 mm, Material : Inconel 600 (NCF 600) Installation Method and Operating Temperature Range: Spot welding –196 to 650°C The following models with the standard leadwire cable code C2M are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.					
	KHCM-5-120-G15-(11, 13, 16) C2MV	5	–	10	3	Minimum radial curvature of R15
	KHCM-10-120-G15-(11, 13, 16) C2MV	10	–	20	3	Minimum radial curvature of R20
550°C (Dynamic) 500°C(Static) **●KHC Encapsulated Gage** Uniaxial, 2-element, temperature-compensation type Resistance : 120Ω, 60Ω Gage factor (500°C) : Approx. 1.75 for gage length 20 mm Approx. 1.5 for gage length 10 mm Material : Inconel 600	Installation Method and Operating Temperature Range: Spot welding –196 to 550°C The following models with the standard leadwire cable code C2M are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.					
	KHC-20-120-G8-11 C2MV KHC-20-120-G8-16 C2MV	20	–	30	4	Minimum radial curvature of R25
	KHC-10-120-G8-11 C2MV KHC-10-120-G8-16 C2MV	10	–	16.5	4	Minimum radial curvature of R20
Uniaxial, 2-element, temperature-compensation type Resistance : 120Ω, 60Ω Gage factor (500°C), approx. : 1.75 for gage length 20 mm, 1.5 for gage length 10 mm Material : SUS 321	The following models with the standard leadwire cable code C2M are delivered with MI cable 2 m long and soft cable 0.5 m long pre-attached.					
	KHC-20-120-G9-11 C2MV KHC-20-120-G9-16 C2MV	20	–	30	5	Minimum radial curvature of R25
	KHC-10-120-G9-11 C2MV KHC-10-120-G9-16 C2MV	10		16.5	5	Minimum radial curvature of R20

A minimum quantity 1 piece