



## ECO Wiring Duct

**Ro** Product in compliance with RoHS Directive

UL approved resin used (UL-94-0) Product registered with Japan Switchboard Industries Association  
Type II Heat Resistance, Heat-resistant Duct KDE-26-64 submitted for approval

### Material

- Modified PPE (Polyphenylether)

Passed Railway Vehicle Materials Fire Test (Certified level: Fire-retardant)

### Features

- Made from non-halogen eco-friendly material.
- About 20% lighter than the conventional PVC duct.
- Provides better heat resistance than the conventional PVC duct.

### Color

- Ivory

### Length

- 2m

### Designation Format

- KDE-(Type)-(Length)-(Side Holes)  
Example: Type 88, length 2m, and side holes H type > KDE-88-20H

Type	KDE-23	KDE-24	KDE-44	KDE-64	KDE-26	KDE-36	KDE-46	KDE-66
Cross Section								
Length (mm)	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Wire Capacity(AWG14)	15	40	60	100	60	65	90	130
Quantity	10	10	10	10	10	10	10	10

Type	KDE-38	KDE-48	KDE-68	KDE-88	KDE-410	KDE-610	KDE-810	KDE-1010
Cross Section								
Length (mm)	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Wire Capacity(AWG14)	90	120	200	260	160	240	270	340
Quantity	10	10	10	10	10	10	10	6

### Side Hole Specs (H type only)

Type	KDE-23	KDE-24·44·64	KDE-26·36·46·66	KDE-38·48·68·88	KDE-410·610·810·1010

### Bottom Hole Specs

Type	KDE-23	KDE-24·44·26·36·46·38·48·410	KDE-64·66·68·88·610·810·1010

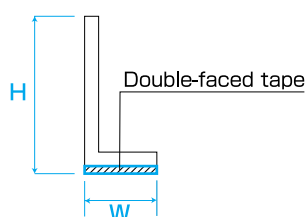
### Physical Characteristics

Item	Unit	Testing Method	Requirements	Test Value
Physical Property	Specific gravity	ASTM D 792	23°C	1.08
Thermal Property	Deflection temperature under load	ASTM D 648	1.82MPa	90~100
	Flammability	UL94		VO
	Permittivity	F/m	ASTM D 150	23°C 50%RH 60Hz: 2.9 23°C 50%RH 10 <sup>6</sup> Hz: 2.9
Electrical Property	Volume resistivity	Ω·cm	ASTM D 257	23°C 50%RH: 10 <sup>16</sup>
	Surface resistivity	Ω	ASTM D 257	23°C 50%RH: 10 <sup>16</sup>
	Tensile strength	MPa	ASTM D 638	23°C 50%RH: 52~64
	Elongation (after fracture)	%	ASTM D 638	23°C 50%RH: 40~50
Mechanical Property	Bending strength	MPa	ASTM D 790	23°C 50%RH: 78~88
	Bend elastic constant	MPa	ASTM D 790	23°C 50%RH: 2.400
	Izod impact strength	J/m	ASTM D 256	23°C with 6.4mm notch: 127~147
	Rockwell hardness	R	ASTM D 795	R scale: 110

## ECO Separator

UL Approved Resin Used (UL 94V-0)

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■ Separator without side hole    ■ H type separator with side hole

Type	W	H	Length	Type	W	H	Length
KDES-60	12	55	1,000	KDES-60	12	55	1,000
KDES-80	15	75		KDES-80	15	75	
KDES-100	15	95		KDES-100	15	95	

(Unit: mm)

\*Standard product: Includes mounting hole and double-faced tape.  
\*Also available without mounting hole or tape upon request.

### Material

- Rigid vinyl chloride (Self-extinguishing material rated 94V-0)

### Color

- Ivory

### Quantity

- 10 pieces