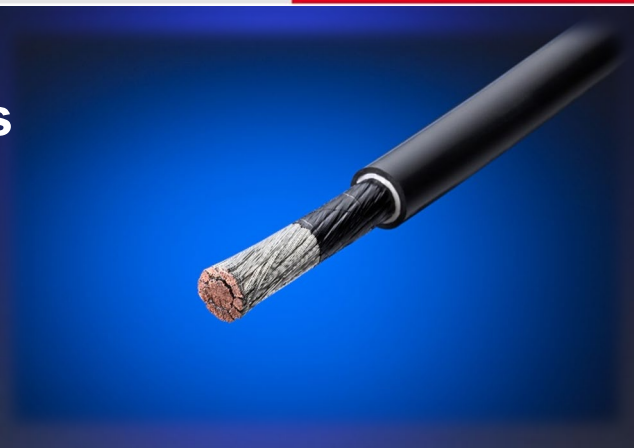


EN Standard Rolling Stock Cables POLYENEX™ EN50264-3-1 (high heat resistant)



Outline

POLYENEX EN50264-3-1 are highly flexible and high heat resistant products that satisfy the individual requirements of our clients and meet European fire safety standards.

Applications

Rolling Stock

Features

- Halogen-free cables comply with EN50264.
- Cables comply to the European fire safety standard EN45545-2.

- Improved heat resistance of EN50264-3-1 (140°C×20,000h)
- Increased allowable current allows conductor size to be reduced

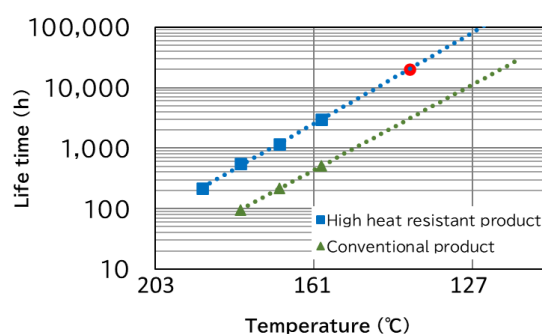


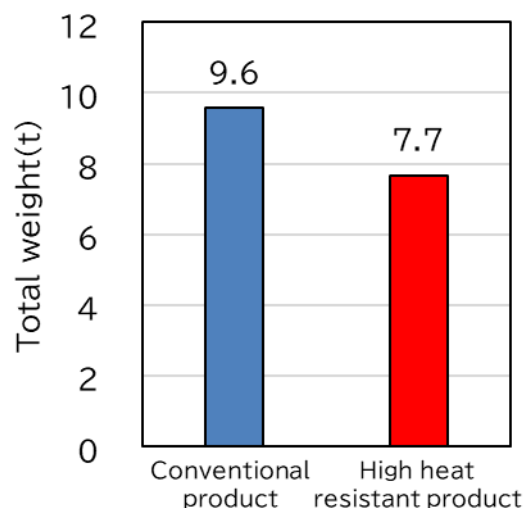
Fig. Temperature-Life time

Conductor size	Overall dia. (mm)	Mass (Approx.) (kg/km)	Current capacity(A)		Reduction effect	
			Conventional product	High heat resistant product	Overall dia.	Mass
16SQ	9.8	225	116	169	—	—
25SQ	11.2	315	153	223	87.5%	71.4%
35SQ	12.5	425	190	277	89.6%	74.1%
50SQ	13.3	560	239	350	94.0%	75.9%
70SQ	16.0	780	299	438	83.1%	71.8%
95SQ	18.5	1040	362	529	86.5%	75.0%
120SQ	20.0	1270	423	619	80.0%	61.4%
150SQ	21.9	1550	490	716	84.5%	67.1%
185SQ	24.2	1900	559	817	82.6%	66.8%
240SQ	27.1	2460	674	985	80.8%	63.0%

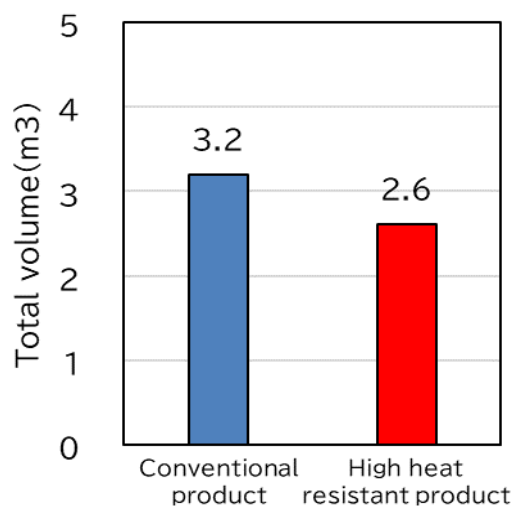
Fig. Current capacity and size reduction effect
(IEC60287-1, Ambient temperature 45°C, free air)

- **Contributes to energy conservation by reducing total weight of electric wires**

Simulation results based on the types of wires used in a certain subway project (10 cars per train)



weight: 20% reduction compared to conventional product



volume: 18% reduction compared to conventional product

- **Reduced conductor size also improves flexibility and wiring workability.**

