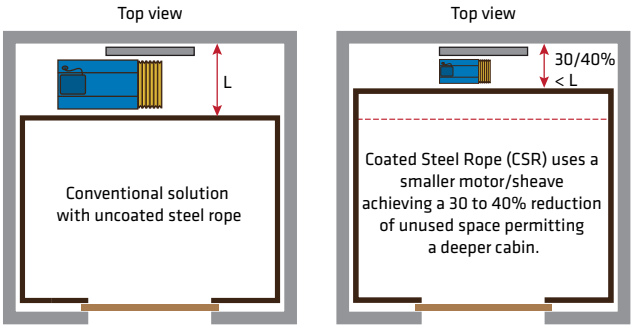
Draka

A brand of the Prysmian Group

Draka CSR d.6,5 mm

SMALL DIAMETER COATED STEEL ROPE

The current architectural trend is for larger elevator cabins. However, the dimensions of the shaft are the limiting factors for cabin size. The only way to achieve a larger cabin is to decrease the size of the elevator mechanism - specifically, the motor and sheaves. Reducing the size of the traction components allows an increase in cabin size within the same shaft dimensions.



The best way to accomplish this reduction is to use a smaller diameter rope. Installing the Draka CSR d.6,5 mm coated steel rope can reduce the size of the sheaves to 120 mm in diameter with no loss of safety or performance.

Achieve greater savings while increasing cabin size

Using Draka CSR results in both capital and operational cost savings. A smaller motor is far less expensive to purchase and, because the smaller motor runs at a higher speed, it uses power more efficently.

The smaller mechanism means smaller pulleys in the pit, thus reducing pit depth. Polyurethane coated ropes also produce more traction compared to conventional ropes. This allows lighter, less expensive cabins for yet another way to lower operating costs.

Reel traceability

The reel's identification number is printed on the PU coating, a feature not available on conventional wire rope. This number is reported in our working certificate and immediately matches the document to the rope.

Tested and certified

Draka CSR d.6,5 mm has been certified by TÜV SÜD CA 563 and fulfills the requirements of Lift Directive 2014/33/EU, EN 81-20:2104 and EN81-50:2014.

Features

- Permits larger cabins through reduction in size of traction components
- Smaller motor means lower capital/operating costs
- Requires fewer ropes than traditional traction systems
- Lowers maintenance costs by eliminating need for lubrication

Technical specifications for Draka CSR d.6,5

Coated Steel Rope	
Diameter (nominal)	6,5 mm
Wire rope diameter	5,0 mm
Wire rope construction	Warrington 7x7+7x19 with IWRC
Wire tensile strenght (nom)	2.450 N/mm^2
Minimum Breaking Load (MBL)	28 kN
Weight (kg/m)	0,12
Metallic cross-section	12,6 mm^2

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