

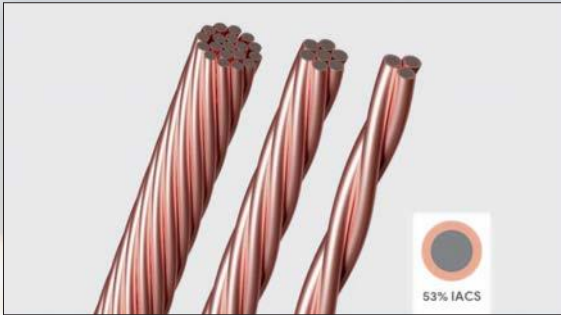
MM-193-04



SAFE CABLE[™]

THEFT DETERRENT CABLE

**“Eliminates
the economic interest
of stealing cables”**



No scrap value!

- Metallurgically bonded copper and soft annealed steel
- Prevents theft of cables = Ensures signal transmission and ground protection function
- Magnetic (as steel)
- High electrical conductivity (53% of a copper cable)
- The same standard cable lugs / sleeves used normally
- The same crimping tools that is used today

As a replacement of copper cables and instead of using aluminum cable, which is fairly impractical, Safetrack offer a unique copper/steel mixed cable. Our SafeCable[™] corresponds to 53% electrical conductivity of a copper cable. In addition, you have the advantage of using standard copper cable lugs with the same crimping tools and dies set that you already use in the field today. The cable can be connected to the other components, and copper connection requires no specialized transitions as with between aluminum wire to copper.

The cable is flexible (*much more than aluminium cable, which sometimes needs special tools to bend*) and can be bent and shaped in the same way as you bend copper wires along the track today. More importantly, the flexibility makes it withstand strong vibrations that occur in the track when a train passes. This is also very important when connecting cables directly to the rail, such as the grounding of the poles. If the ground poles are stolen or breaks due to vibrations there is no protection for the deadly voltage and public and track staff risk their lives.

The cable is magnetic (unlike copper cable), which thieves confirm with magnets and therefore avoid stealing the cable. The scrap yard also checks cables with magnets. Thieves that try to cut it anyway, discover that it is more difficult to cut and requires better cable cutters.

The next disappointment awaits at the scrap yard:
SafeCable[™] has no scrap value for copper thieves!

Connections to the rail can be made with PinBrazing, SafePlug[®] and other methods. The cable can also be ordered insulated according to customers specifications.



Technical specification	SAFE 35941	SAFE 35951	SAFE 35961	SAFE 35971
Sq. Area (mm ²)	50 mm ² / 0,077 sq in	70 mm ² / 0,108 sq in	95 mm ² / 0,147 sq in	120 mm ² / 0,186 sq in
Equivalent to copper cable	25 mm ² / AWG 4	41 mm ² / AWG 1	53 mm ² / AWG 1/0	65 mm ² / AWG 2/0
Diameter, cable (mm)	9,17 mm / 0,361 in	10,8 mm / 0,425 in	12,6 mm / 0,496 in	14,4 mm / 0,566 in
Weight	0,424 kg/m 0,285 lb/ft	0,58 kg/m 2,565 ft/lb	0,785 kg/m 1,896 ft/lb	1,03 kg/m 1,445 ft/lb
Number of strands	37	61	61	61