



Welding Cable

Energy Efficient Welding Cables with Long Life

Heat Resistant
Flame Retardant



Welding Cable Cu / Al



Energy Efficient

ESAB offers a wide range of energy efficient Al / Cu welding cables for different applications. All the welding cables are Heat Resistant and Flame Retardant (HFR). Additionally HOFR welding cables are oil resistant.

- **Heat resistant** – Al / Cu welding cables are designed to withstand up to +90 °C (HFR) and +120 °C (HOFR)
- **Better conductivity** – through high purity electrolytic grade Copper wires and additional polyester film, the latter also improves moisture protection
- **Consistent delivery of V/A** – with varying (including long) lead lengths
- **Effective energy consumption** – due to minimal resistance losses
- **Conformance to BIS** – wires / conductors diameter & count, conductor resistance & temperature rise as per IS:8130/84, sheathing as per IS:6380/84 (HFR - rubber sheathing as per SE1 and HOFR – NBR-PVC/HOFR sheathing as per SE3)

Visit www.esabindia.com for more information.

User Guidelines

- Before use, check if end-seals at both ends are intact. Quarantine material in case of damage to end-seals and report to ESAB
- Replace any welding cable with damaged insulation
- Ensure welding cable is not coiled or looped around the body during use to avoid electro-magnetic fields
- Ensure cables are not spliced within 10 feet from the holder
- Ensure welding cables are not in coiled condition during use to avoid over-heating
- Use the welding cable within the rated current capacity

Application Areas

- HFR Welding Cable
 - General Fabrication
 - Construction & Projects
 - Railways
 - Automotive
- Welding Cable HOFR
 - Mines
 - Refineries & Petrochemicals
 - Process Plants

Specifications / Technical Data

Welding Cable HFR

Area	Copper Conductor Current Rating (A) at % Duty Cycle & Maximum Resistance (ohm/km)				Aluminium Conductor Current Rating (A) at % Duty Cycle & Maximum Resistance (ohm/km)			
	A / 20%	A / 60%	A / 100%	Max. Resistance at 20°C (ohm/km)	A / 20%	A / 60%	A / 100%	Max. Resistance at 20°C (ohm/km)
1 x 35	349	201	156	0.554	-	-	-	-
1 x 50	440	254	197	0.386	-	-	-	-
1 x 70	555	320	248	0.272	438	253	196	0.445
1 x 95	669	386	299	0.206	530	306	237	0.334
1 x 120	772	447	356	0.161	633	365	283	0.256

Specifications / Technical Data

Welding Cable HOFR

Area	Copper Conductor Current Rating (A) at % Duty Cycle & Maximum Resistance (ohm/km)				Aluminium Conductor Current Rating (A) at % Duty Cycle & Maximum Resistance (ohm/km)			
	A / 30%	A / 60%	A / 100%	Max. Resistance at 20°C (ohm/km)	A / 30%	A / 60%	A / 100%	Max. Resistance at 20°C (ohm/km)
1 x 50	509	360	279	0.386	-	-	-	-
1 x 70	643	454	352	0.272	511	361	280	0.445
1 x 95	774	547	424	0.206	619	438	339	0.334
1 x 120	-	-	-	-	738	522	404	0.256

Ordering Information

Description	Part number	Description	Part number
HFR Welding Cable Cu 35 sq mm	4600600181	Welding Cable Cu 50 sq mm HOFR	4600600166
HFR Welding Cable Cu 50 sq mm	4600600182	Welding Cable Cu 70 sq mm HOFR	4600600167
HFR Welding Cable Cu 70 sq mm	4600600183	Welding Cable Cu 95 sq mm HOFR	4600600170
HFR Welding Cable Cu 95 sq mm	4600600184	Welding Cable Al 70 sq mm HOFR	4600600171
HFR Welding Cable Cu 120 sq mm	4600600185	Welding Cable Al 95 sq mm HOFR	4600600175
HFR Welding Cable Al 70 sq mm	4600600191	Welding Cable Al 120 sq mm HOFR	4600600172
HFR Welding Cable Al 95 sq mm	4600600192		
HFR Welding Cable Al 120 sq mm	4600600193		

Note : Al / Cu welding cables are delivered in standard lengths of 100m in drums.

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COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =