

SUPERSTAR Welding Cable Confirming To IS 9857 /1990



Technical data

- Harmonised Welding Cable with G.P.Rubber Sheathing as Type SE 1/ NBR-PVC / HOFR Sheathing as Type SE 3 to IS 6380/84.
- **Conductor resistance**
In accordance to IS: 8130/84.
- **Conductor resistance factor**
at +20° C – see technical information
- **Admissible working temperature**
At the conductor
General Purpose + 60° C
HOFR/NBR-PVC Type +90° C

Cable structure

- Plain / Tinned annealed Copper / Plain Aluminium conductor extra fine stranded & bunched in accordance to IS 8130/84
- Melinex tape used as separator over the conductor.
- G.P./H.O.F.R. outer Rubber/NBR jacketing as per IS 6380/84.
- With marking of brand name, cross section & ISI Mark on each mtr.
- Testing of cable carried out as per - IS 9857/90 at our In House facility.

Application

- Rubber insulated flexible welding cable are used to connect Welding Machine & for better welding proficiency.
- Used in Automobile industries, Shipbuilding, Transport, Steel Plants, Railways, Refineries, Oil fields, Automatic Welding Robots, Construction, Coal Mines etc.
- The robust construction makes these cables highly durable.

Welding Cable with standard flexibility with General Purpose Insulation , bending radius : approx 15 x CableØ

Cross-Sec (Sq.mm)	Copper Conductor				Aluminium Conductor					
	Approximate No. of x Single Wires	WireØ (mm)	Radial thickness of sheathing (mm)	Approximate overall diameter (mm)	Max Resistance @ 20°C (ohm/km)	Approximate No. of x Single Wires	WireØ (mm)	Radial thickness of sheathing (mm)	Approximate overall diameter (mm)	Max Resistance @ 20°C (ohm/km)
1x16	513	x 0.2	2.0	10.0	1.210	--	--	--	--	--
1x25	783	x 0.2	2.0	12.0	0.780	--	--	--	--	--
1x35	497	x 0.3	2.0	13.7	0.554	497	x 0.3	2.0	13.7	0.901
1x50	702	x 0.3	2.2	15.3	0.386	702	x 0.3	2.2	15.3	0.634
1x70	999	x 0.3	2.4	17.3	0.272	999	x 0.3	2.4	17.3	0.445
1x95	1332	x 0.3	2.6	20.5	0.206	1332	x 0.3	2.6	20.5	0.334
1x120	1702	x 0.3	2.8	22.7	0.161	1702	x 0.3	2.8	22.7	0.256

Current Rating for Tough Rubber Sheathed Welding Cable

Cross-Sec (Sq.mm)	Copper Conductor					Aluminium Conductor				
	Current Rating At Max Duty Cycle In Amps					Current Rating At Max Duty Cycle In Amps				
	100%	85%	60%	30%	20%	100%	85%	60%	30%	20%
1x16	94	102	121	172	210	--	--	--	--	--
1x25	125	136	161	228	279	--	--	--	--	--
1x35	156	169	201	285	349	123	133	159	225	275
1x50	197	214	254	360	440	155	168	200	283	347
1x70	248	269	320	453	555	196	213	253	358	438
1x95	299	342	386	546	669	237	257	306	433	530
1x120	--	--	--	--	--	283	307	365	517	633

Safety Requirements

1. Coiled welding cable must always be spread out before using to avoid overheating in use.
2. Cables must not be spliced within 10 feet of the holder.
3. Welding cable must never be coiled or looped around the body of the worker
4. Cables with damaged insulation must be replaced.

Current Rating for HOFR Sheathing Welding Cable

Cross-Sec (Sq.mm)	Copper Conductor				Aluminium Conductor			
	Current Rating At Max Duty Cycle In Amps				Current Rating At Max Duty Cycle In Amps			
	100%	85%	60%	30%	100%	85%	60%	30%
1x16	135	146	174	246	--	--	--	--
1x25	177	192	228	343	--	--	--	--
1x35	221	240	285	403	176	191	227	321
1x50	279	303	360	509	222	241	287	405
1x70	352	382	454	643	280	304	361	511
1x95	424	460	547	774	339	368	438	619
1x120	--	--	--	--	404	438	522	738

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