

Single Core High Conductivity Copper Conductor EM-5 Chlorinated Rubber Compound 85°C Sheathed Welding Cable as per DIN VDE 0282 Specification

Application

- ✓ For use between welding generator and the hand electrode and the work piece.
- ✓ For use in automobile industry, in ship building, in transport and conveyor systems, tool making machinery, welding robots, etc.

Product Construction


- ✓ Conductor : Fine stranded plain or tinned class-6 copper conductors conforming to DIN VDE 0295, IEC 60228 and HD 383
- ✓ Separator : Dry Paper, Polyester Tape
- ✓ Sheath : Neoprene outer jacket, chlorinated rubber compound Em5
- ✓ Colour : Orange or Black

Technical Data

- ✓ Temperature Range : 85°C
- ✓ Voltage for Testing : 1000 V AC
- ✓ Bending Radius(Minimum) : 12x Overall dia.

Features

- ✓ Flexibility under rough, open dry, damp conditions.
- ✓ Oli resistant to DIN EN 60811-2-1
- ✓ High flexibility under the effect of ozone, light oxygen, inert gas, oil or petrol.

	ISO 9001	ISO 14001	OHSAS 18001	AS 9100	ISO 45001	CE
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Part Number	Nominal Conductor Area (mm ²)	Maximum Strand dia (mm)	Thickness of Insulation (mm)	Approx. Overall diameter (mm)	Approx Weight of Cable (kg/km)	Maximum Conductor Resistance at 20°C (Ω/Km)	
						Plain Wires	Tinned Wires
538 27 XX	10	0.21	2.0	8.8	153	1.83	1.84
538 28 XX	16	0.21	2.0	9.9	220	1.15	1.16
538 30 XX	25	0.21	2.0	11.2	310	0.727	0.734
538 32 XX	35	0.21	2.0	12.4	410	0.524	0.529
538 34 XX	50	0.21	2.2	14.4	565	0.387	0.391
538 37 XX	70	0.21	2.4	16.5	780	0.268	0.270
538 38 XX	95	0.21	2.6	18.7	1040	0.193	0.195
538 41 XX	120	0.51	2.8	20.6	1300	0.153	0.154
538 42 XX	150	0.51	3.0	22.7	1600	0.124	0.126

Rating factors for variation in Ambient temperature

Ambient Temperature °C	25	30	35	40	45	50
Rating factor	1.08	1.00	0.91	0.82	0.71	0.58

Note : XX* : Please add last two digits in the part number as per the colour code given hereunder replacing XX while ordering.

Red - 01	Yellow - 02	Blue - 03	Black - 04	Green - 05	Yellow-Green - 06	Grey - 07	Brown - 08	White - 09	Orange - 10	Violet - 11
Chocolate - 12	Tan - 13	Charcoal - 14	LT Blue - 15	DK Grey - 16	LT Green - 17	DK Green - 18	DK Blue - 19	Purple - 20	Pink - 21	

- ✓ * Other length as per Customer order.
- ✓ Current Carrying capacity given is for the maximum conductor operating temperature of 80°C and ambient air temperature of 40°C.