

WELDING CABLES

Double Insulated | Extra Flexible | Orange & Black Jacket

- 10 Sq. mm. to 400 Sq. mm.
- 600 Volts
- 30°C to + 90°C

Conforms to, BS EN 50525 CENELEC HD 22-6 31, VDE 0282 ,IEC 245-6, BS 6899, IS 6830/84



Cable Structure

Conductor :

High conductivity, bare annealed copper flexible conductor, EC copper class 5 and class 6 generally conforms to IEC 60228, DIN VDE 0281

Insulation :

Double Sheathed with a specially developed Thermo plastic Elastomeric (TPR/NBR)

Application

- Designed for the secondary (high current) connection to automatic or hand – held metal arc welding electrodes.
- Suitable for flexible use under rugged conditions, on assembly lines and conveyor systems, in machine tool and automatically operated line and spot welding machines.

NBR/NBR Welding Cable

Nominal cross sectional area of conductor Sq. mm.	Nominal insulinn Thickness mm	Nominal sheath Thickness mm	Overall cable diameter		Max conductor resistance at 20°C Ω/km	Current rating					Non Welding Application on amp
			Lower limit mm	Upper limit mm		Welding Application & Duty Cycle					
						100% amp	85% amp	60% amp	30% amp	20% amp	
10	1.2	1.8	7.8	10.0	1.91	105	115	135	190	235	110
16	1.2	1.9	9.0	11.5	1.21	135	145	175	245	302	138
25	1.4	2.0	10.0	13.0	0.780	180	195	230	330	402	187
35	1.4	2.2	11.5	14.5	0.554	225	245	290	410	503	233
50	1.6	2.4	13.0	17.0	0.386	285	310	370	520	637	295
70	1.6	2.6	15.0	19.0	0.272	355	385	460	650	794	372
95	1.8	2.8	17.5	21.5	0.206	430	470	560	790	961	449
120	1.8	3.0	19.5	24.0	0.161	500	540	650	910	1118	523
150	2.0	3.2	21.5	26.0	0.129	580	620	740	1040	1297	608
185	2.2	3.4	23.0	29.0	0.106	660	715	850	1200	1476	690
240	2.4	3.5	27.0	32.0	0.0801	710	770	916	1296	1587	744
300	2.6	3.6	30.0	35.0	0.0641	800	850	1035	1450	1790	840
400	2.8	3.8	33.0	39.0	0.0486	925	1000	1195	1690	2070	970

Rating factors for variation in ambient temperature

Ambient temperature °C	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°
Rating Factor	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.69	0.64	0.57

Voltage Drop :

When total cable lengths in excess of 15 meters., are involved , it may be necessary to use cables of larger cross section to ensure that the voltage drop is not excessive and welding currents are maintained at adequate levels.

RIALTO CABLES PVT. LTD.

301 AEON COMPLEX, OPP ADC BANK,
NR. VIJAY CROSS ROAD, NAVRANGPURA, AHMEDABAD- 380009, GUJARAT- INDIA
Email: info@rialtocables.com Website: www.rialtocables.com

TEST REPORT OF NBR BASE RUBBER DOUBLE INSULATED ORANGE WELDING CABLES

Date: 05-06-2023

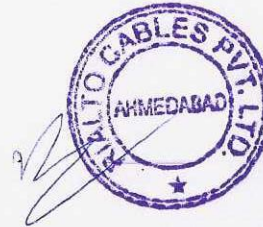
Reference Standards IEC-60228
BATCH No WELD70/06-2023

SIZE : 70.0 MM2 X 1 CORE NBR BASE RUBBER DOUBLE INSULATED ORANGE WELDING CABLE CLASS- 5

No	Name of Test	Requirements	Result
1	Cable Diameter	17.10 mm +/- 0.5mm	17.10 mm
2	Thickness of Insulation	3.50 mm Avg 3.25 mm Min	3.50 mm 3.50 mm
3	Conductor Resistance at 20 Deg.C.	0.272 Ohm/Km. Max	Pass
4	A.C. High Voltage Test	2 KV/5 Min	Pass
5	Tensile Strength	10.0 N/mm ² Min.	11.50 N/mm ²
6	Elongation	300 % Min.	350%
7	Shrinkage	4 % Max.	2.00%
8	Flammability Test		
	Time after removal of Flame	60 Second Max.	Pass
	Ineffective Portion	50 mm Min.	Pass

Notes:

- 1 HOFR Rubber
- 2 Heat, Oil Resistant
- 3 Flame Retardant





Certificate OF REGISTRATION

This is to certify that

RIALTO CABLES PRIVATE LIMITED

Address: 301, AEON, Opp. ADC Bank, Near Vijay Char Rasta, Navrangpura,
Ahmedabad-380009, (Gujarat), India.

has submitted Declaration of Conformity (Dated: 18-03-2023) according to

Low Voltage Directive 2014/35/EU

Organization has been assured and found to be conforming with the requirements of the stated directive
and Standards submitted through Declaration of Conformity
Hence manufacturer places the CE marking with his own responsibility as follows:



For the Products of

Manufacturing and Sales of Electrical Cables & Wires
and Solar Cables.

By QSA International, UK

Registration Number: QSA-23013172

Initial Certification Date: 24 March, 2023

Certification Expiry Date: 23 March, 2026



**QSA INTERNATIONAL
LIMITED**
27, Old Gloucester Street,
London, WC1N3AX, ENGLAND

Certification Manager



Email: info@qsai.co.uk
Web: www.qsai.co.uk



Certificate OF REGISTRATION

ANNEXURE- "A"

Certificate No. QSA-23013172
RIALTO CABLES PRIVATE LIMITED

Name of Products
Harmonized Cables
HO7RN-F, RZI-K, HOSZ-K, HO7Z-K & RV-K Cables
HOSV-K, HO7V-K, HO7V-U, HO7V-R & HOSW-F Cables
PVC & Rubber Flexible Cables
PVC & Rubber Submersible Cables
Single & Multi Core Cables
Solar Cables
Welding Cables
Building & House Wires
Instrumentation Cables



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Startford Ray

Certification Manager



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Certificate
OF REGISTRATION

This is to certify that

RIALTO CABLES PRIVATE LIMITED

301, AEON, Opp. ADC Bank, Near Vijay Char Rasta, Navrangpura, Ahmedabad- 380009,
(Gujarat), India

has been assessed and found to be conforming to the requirements

ISO 9001:2015

QUALITY MANAGEMENT SYSTEM

For the Scope of

**Manufacturing, Export and Sales of Electrical Cables & Wires and Solar
Cables.**

By QSA International, UK

This Certificate is valid from 08th May, 2023 to 07th May 2024

Registration Number: QSA-23013203
Initial Certification Date: 08 May, 2023
Certification Expiry Date: 07 May, 2026



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