ISO 8205:2021 (E)

Resistance welding equipment — Water-cooled secondary connection cables

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Classification

4.1 Form of the end lugs
4.2 Resistance and reactance

5 Dimensions

5.1 Double conductor connection cables
5.1.1 Cross-sectional area
5.1.2 Length
5.1.3 End lugs
5.2 Single conductor connection cables
5.2.1 Cross-sectional area
5.2.2 Length
5.2.3 End lugs

6 Marking

7 Designation

8 Materials

9 Electrical characteristics

9.1 General
9.2 Permanent current
9.3 Resistance

10 Electrical requirement

10.1 Type test
10.1.1 Measurement of insulation resistance
10.1.2 Determination of the impedance of the cable (only for cables in accordance with double conductor connection cables)
10.1.3 Determination of the resistance of the cable
10.1.4 Calculation of power factor (only for cables in accordance with double conductor connection cables)
10.2 Routine test (only for cables in accordance with double conductor connection cables)

11 Mechanical requirement

11.1 General
11.2 Leak tightness and pressure resistance of the water circuit
11.3 Water flow
11.4 Verification of flexibility at ends
11.4.1 General
11.4.2 Fixing of the cable
11.4.3 Measurements to be taken
11.4.4 Interpretation of results
11.5 Torsion
11.5.1 General

11.5.2 Test rig
11.5.3 Measurement to be taken
11.6 Endurance test
11.6.1 Principle
11.6.2 Test apparatus
11.6.3 Adjustment parameters
11.6.4 Test cycle
11.6.5 Test procedure and duration
11.7 Test report
12 Delivery conditions

Page count: 17