

Anúncio Convite

Aquisição ao abrigo do Decreto-lei n.º 60/2018, de 3 de agosto

(Português)

Referência (indicar na proposta):	2021-03
Entidade Adjudicante:	UNINOVA – Instituto de Desenvolvimento de Novas Tecnologias PT501797173
Projecto:	tLOSS - Transformando o Cálculo de Perdas em Sistemas de Potência com Supercondutores de Alta Temperatura (referência: PTDC/EEIEEE/32508/2017_LISBOA-01-0145-FEDER-032508)
Data da Publicação:	19/04/2021
Prazo final da proposta:	3 dias uteis após a data da publicação
Objeto do contrato:	Fitas supercondutoras de alta temperatura crítica constituída de GdBaCuO
Características Técnicas:	139 metros de fita HTS Silver surround, front side 1 μm , back side 0.2 μm e Ic de ~580 amperes; 164 metros de fita HTS Cu surround layer, approx. 7 μm on each side e Ic de ~510 amperes; 140 metros de fita HTS Cu surround layer, approx. 10 μm + thin PbSn solder coating e Ic de 290 amperes. (comprimentos em amplitudes aproximadas)
Critério de Adjudicação:	Critério do mais baixo preço.
Critério de desempate:	Atendimento pleno as atividades laboratoriais fins do projeto.
Preço base (sem IVA):	32000,00 €
Condições de pagamento:	30 dias após a data de emissão da fatura.
Enviar proposta para:	compras@uninova.pt , jmmp@fct.unl.pt
Responsável pela avaliação de propostas:	João Miguel Murta Pina
Gestor do Contrato:	João Miguel Murta Pina
Audiência prévia:	3 dias úteis após data notificação da proposta de adjudicação
ANEXOS	Especificações técnicas detalhadas

Invitation Announcement

Acquisition under Decree-Law n.º 60/2018, of 3 de August

(English)

Reference (indicate in the proposal): 2021-03

Contracting Authority: UNINOVA – Instituto de Desenvolvimento de Novas Tecnologias PT501797173

Project: tLOSS - Transformando o Cálculo de Perdas em Sistemas de Potência com Supercondutores de Alta Temperatura (referência: PTDC/EEIEEE/32508/2017_LISBOA-01-0145-FEDER-032508)

Publication Date: 19/04/2021

Proposal Deadline: 3 business days after the publication date

Subject of the contract: High temperature superconducting tapes made up of GdBaCuO

Technical Characteristics: 139 meters of HTS tape Silver surround, front side 1 μm , back side 0.2 μm and I_c of ~580 amperes; 164 meters of HTS tape Cu surround layer, approx. 7 μm on each side and I_c of ~510 amperes; 140 meters of HTS tape Cu surround layer, approx. 10 μm + thin PbSn solder coating and I_c of ~290 amperes. (lengths with approximate amplitudes)

Selection criteria: Lowest price criteria

Tiebreaker criteria: Full compliance with laboratory purposes of the project.

Base Price (VAT not included): 32000,00 €

Payment Conditions: 30 days after invoice.

Send proposals to: compras@uninova.pt, jmmp@fct.unl.pt

Person in charge of proposals analysis: João Miguel Murta Pina

Contract manager: João Miguel Murta Pina

Prior hearing: 3 business days from the date of notification of award proposal

Annex: **Detailed technical specifications**

ANEXO / ANNEX

1

Piece length: meters - 139
Width: 12 mm
Critical current (I_c) (77 K, self-field): minimum value of 580A
Thickness: 0.06 mm
Silver overlayer thickness^{**}: 1.2 microns +/- 0.5 microns
Hastelloy substrate thickness: 0.05 mm
Critical tensile stress^{***}: 600 Mpa
Copper stabilizer^{*}: No
Insulation: Yes; see below
* Estimated based on thickness of the wire
** Substrate side (bottom) ~ 0.2 micron silver; HTS side (top) ~ 1.0 micron silver
*** Less than 5% reduction in I_c from virgin state
Insulation - (Polyimide Spiral Wrapping)
0.025 mm including adhesive with an average overlap percentage of 30%
All other specifications are consistent with wire type as listed above

2

Piece length: meters - 164
Width: 12 mm
Critical current (I_c) (77 K, self-field): minimum value of 510A
Thickness: 0.08 mm
Copper overlayer thickness^{**}: 1.4 microns +/- 0.5 microns
Hastelloy substrate thickness: 0.05 mm
Critical tensile stress^{***}: 500 Mpa
Silver stabilizer^{*}: No
Insulation: Yes; see below
* Estimated based on thickness of the wire
** Substrate side (bottom) ~ 0.7 micron copper; HTS side (top) ~ 0.7 micron copper
*** Less than 5% reduction in I_c from virgin state
Insulation - (Polyimide Spiral Wrapping)
0.025 mm including adhesive with an average overlap percentage of 30%
All other specifications are consistent with wire type as listed above

3

Piece length: meters - 140.00

Width: 12.00 mm +/- 5%

Critical current (I_c) (77 K, self-field): minimum value of 250 A

Thickness: 0.08 mm +/- 10%

Copper overlayer thickness^{**}: 10.0 microns +/- 0.5 microns

Hastelloy substrate thickness: 0.05 mm

Critical tensile stress^{***}: >550 Mpa

PbSn solder coating^{*}: Yes; thickness^{*}: 0.01mm +/- 0.01mm

Insulation: Yes; see below

* Estimated based on thickness of the wire

** Substrate side (bottom) ~ 5 micron copper; HTS side (top) ~ 5 micron copper

*** Less than 5% reduction in I_c from virgin state

Insulation - (Polyimide Spiral Wrapping)

0.025 mm including adhesive with an average overlap percentage of 30%

All other specifications are consistent with wire type as listed above