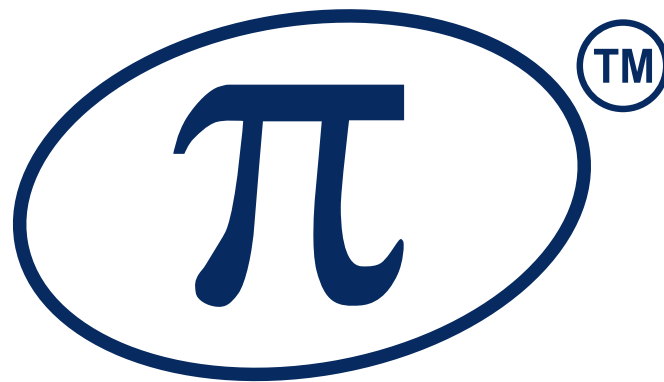


**PROTON PRODUCTS  
PH SERIES PREHEATERS  
PERFORMANCE GUIDES**

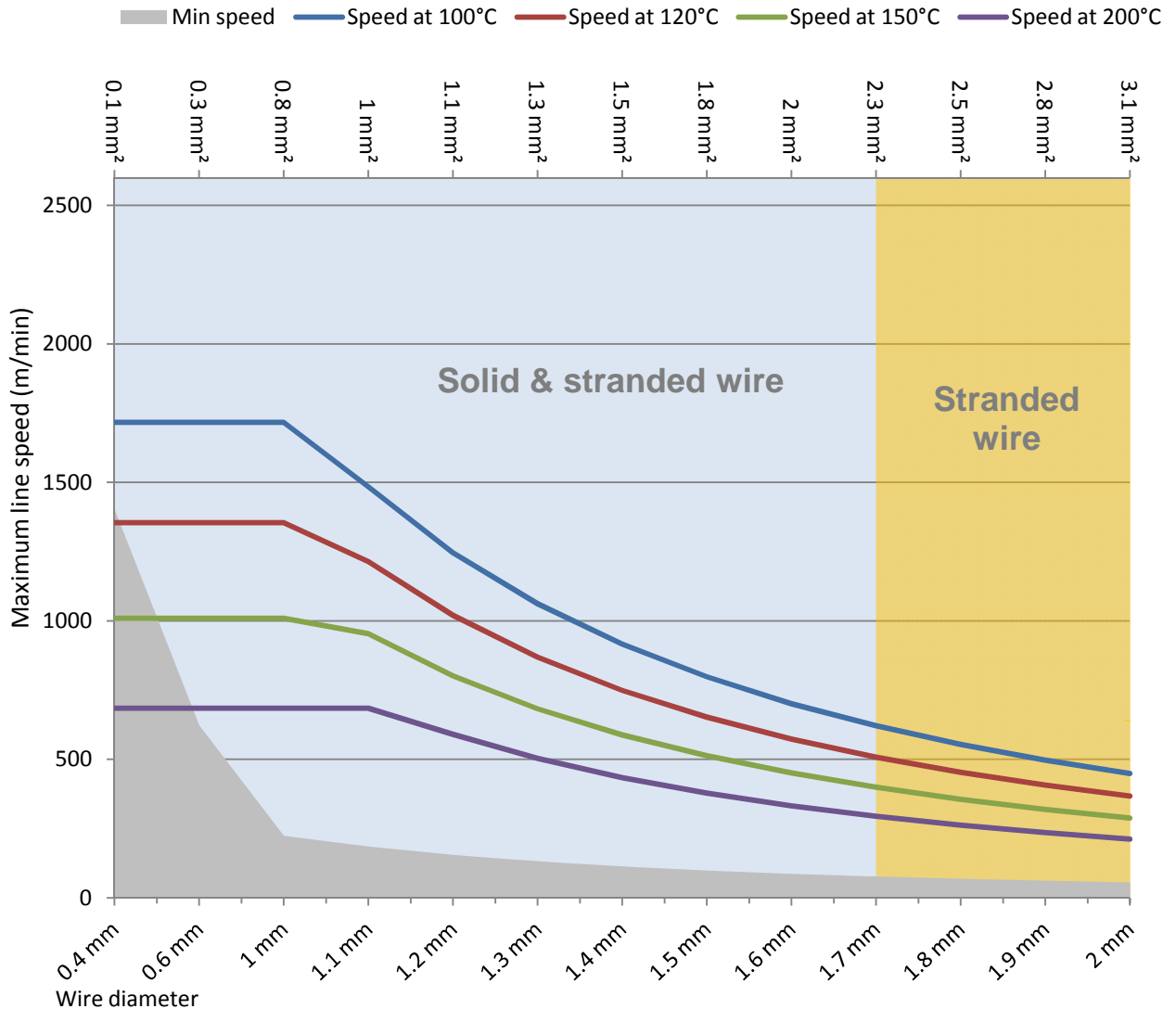


**PROTON**  

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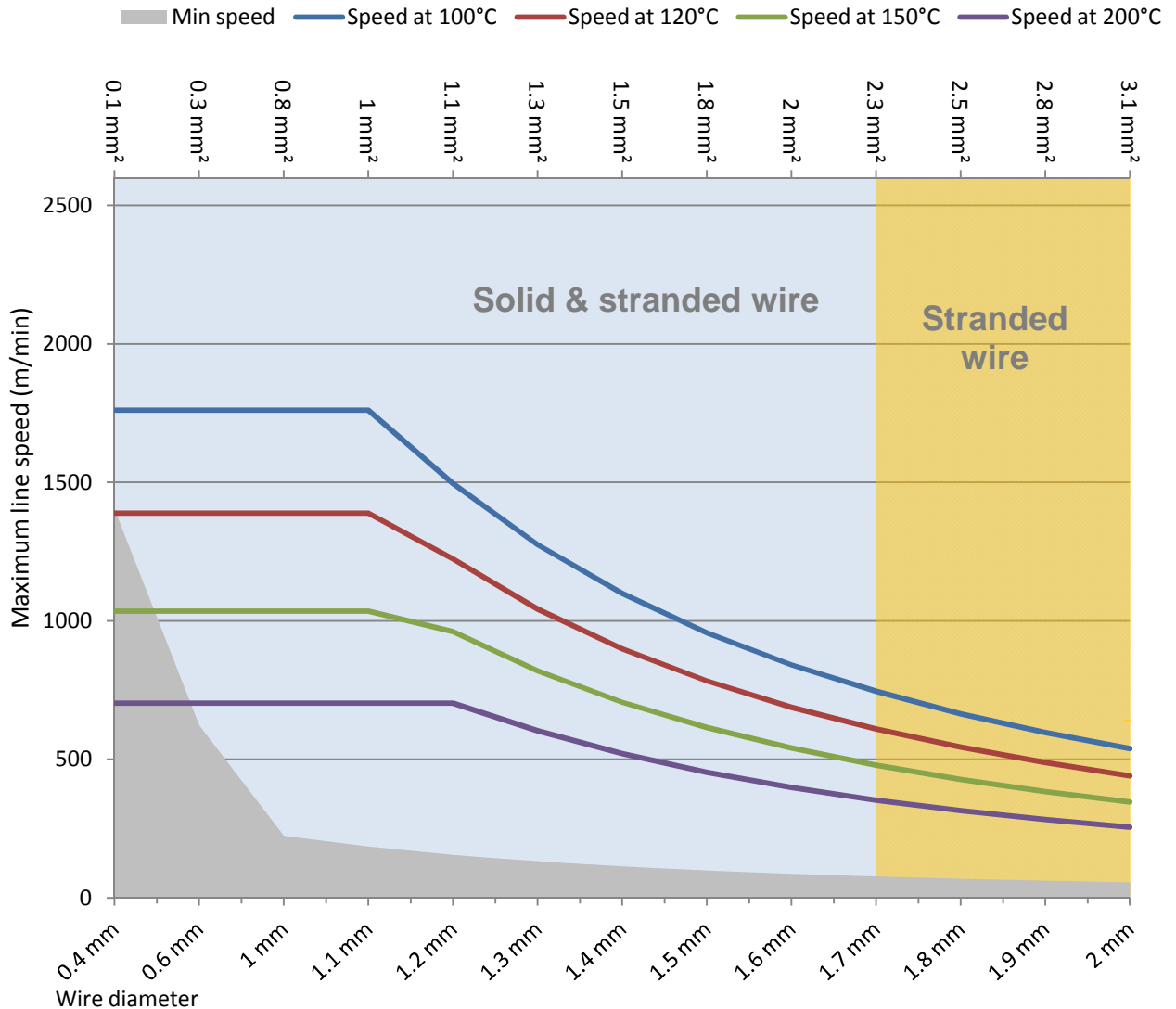
**P R O D U C T S**

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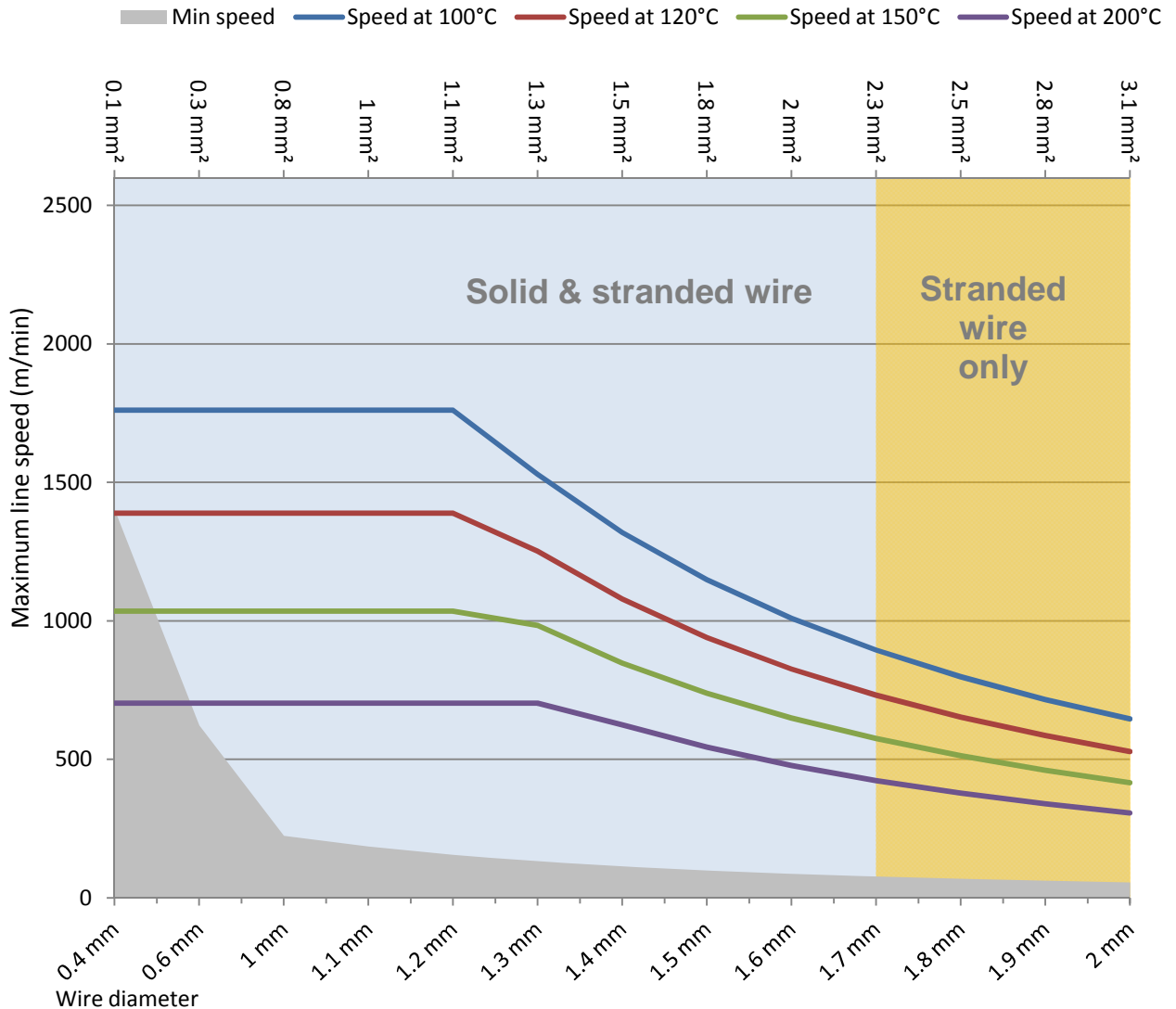
Max. solid wire diameter:	<b>1.60mm</b>
Max. stranded wire <b>area</b> / diam:	<b>3mm<sup>2</sup> / 1.95mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>200 VAC 3-phase</b>
Input voltage:	<b>180 V to 220 V, 47~65 Hz</b>
Power rating:	<b>10 kW</b>
Pulley diameter:	<b>160 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

\* Contact Proton Products for performance data for non-copper wire materials  
 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.



Max. solid wire diameter:	<b>1.60mm</b>
Max. stranded wire <b>area</b> / diam:	<b>3mm<sup>2</sup> / 1.95mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>12 kW</b>
Pulley diameter:	<b>160 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

\* Contact Proton Products for performance data for non-copper wire materials  
 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.

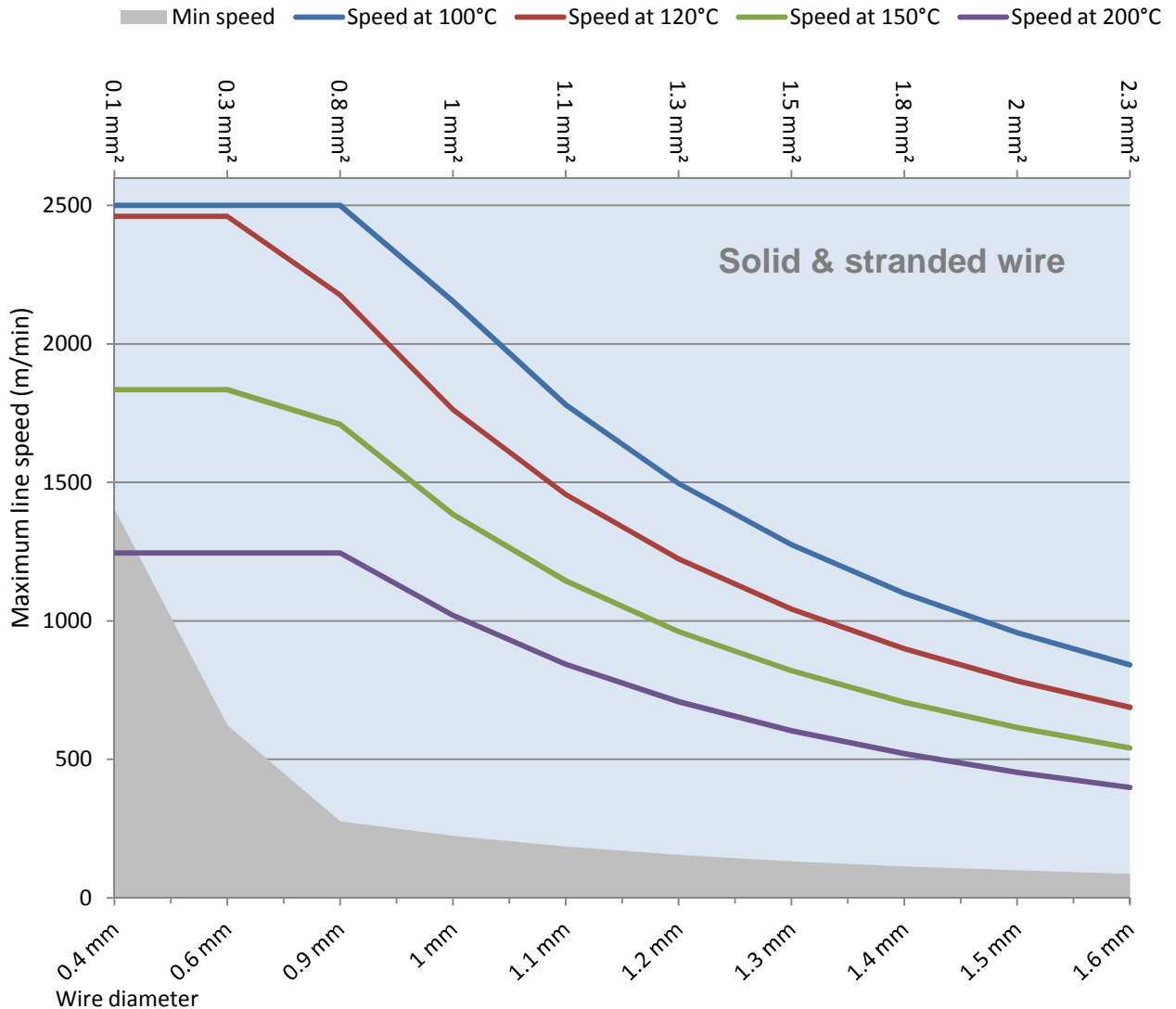


Max. solid wire diameter:	<b>1.60mm</b>
Max. stranded wire <b>area</b> / diam:	<b>3mm<sup>2</sup> / 1.95mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>12 kW</b>
Pulley diameter:	<b>160 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

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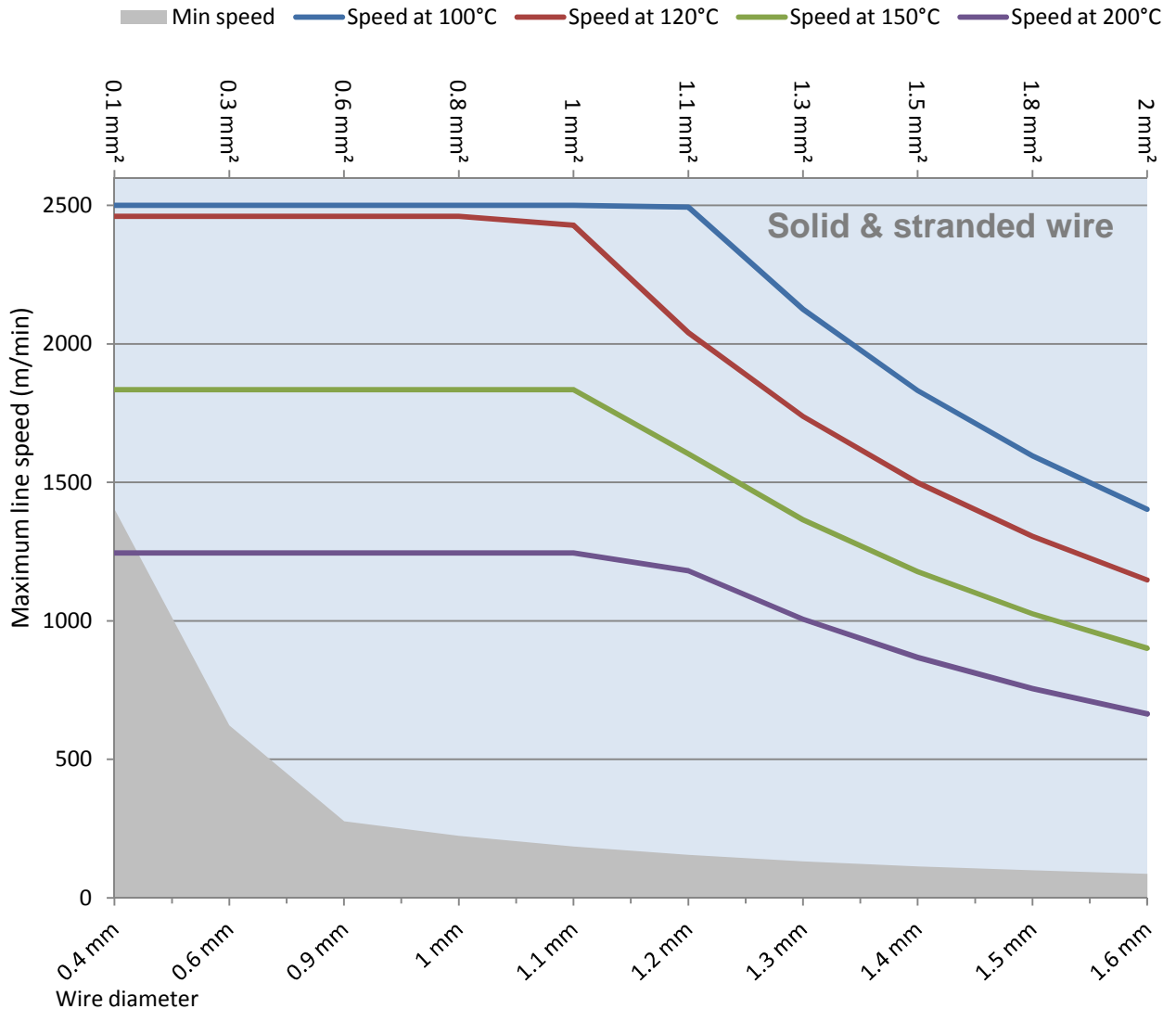
# PH160-12-400HS



Max. solid wire diameter:	<b>1.60mm</b>
Max. stranded wire <b>area</b> / diam:	<b>3mm<sup>2</sup> / 1.95mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>12 kW</b>
Pulley diameter:	<b>160 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

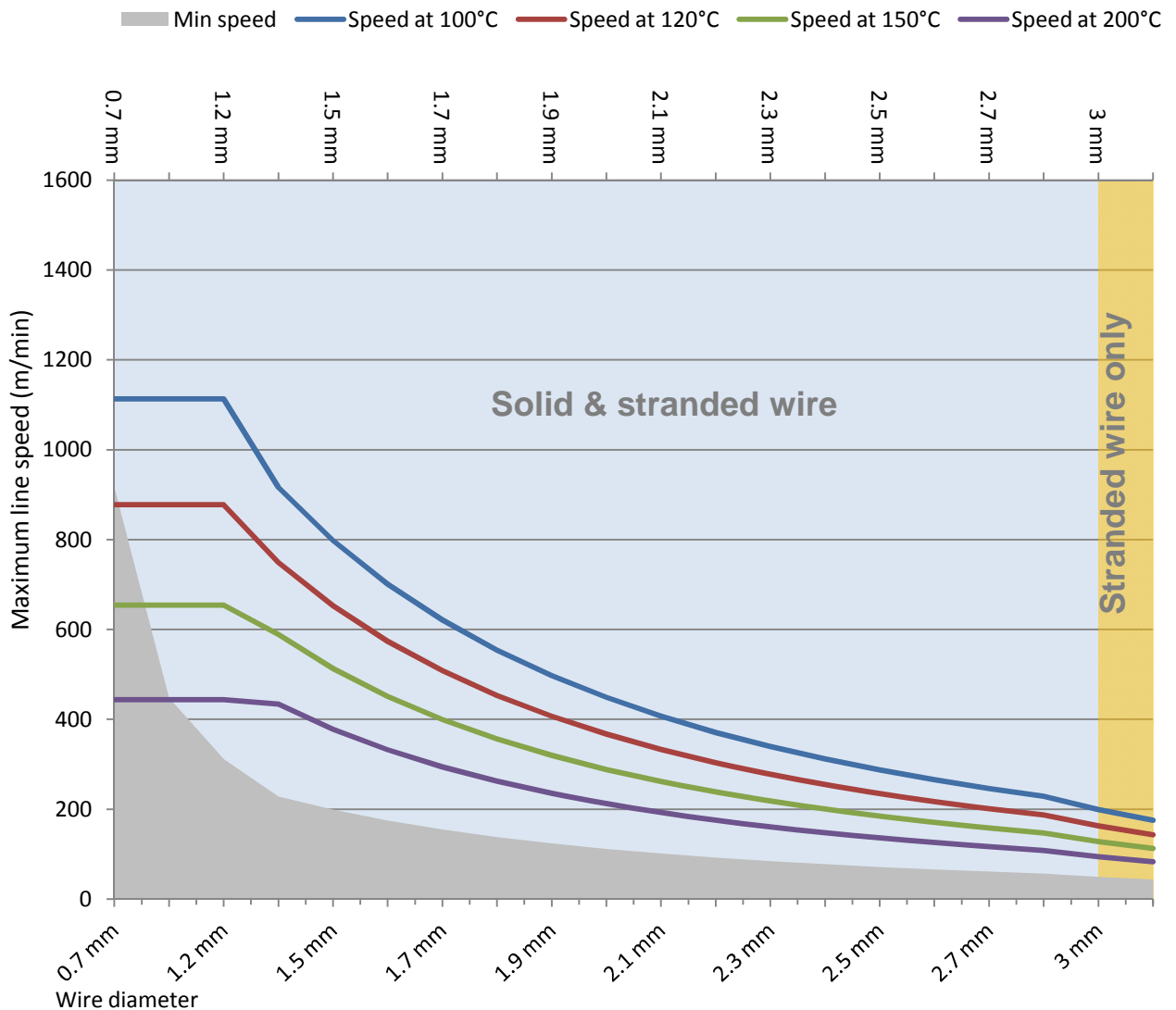
\* Contact Proton Products for performance data for non-copper wire materials  
 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.

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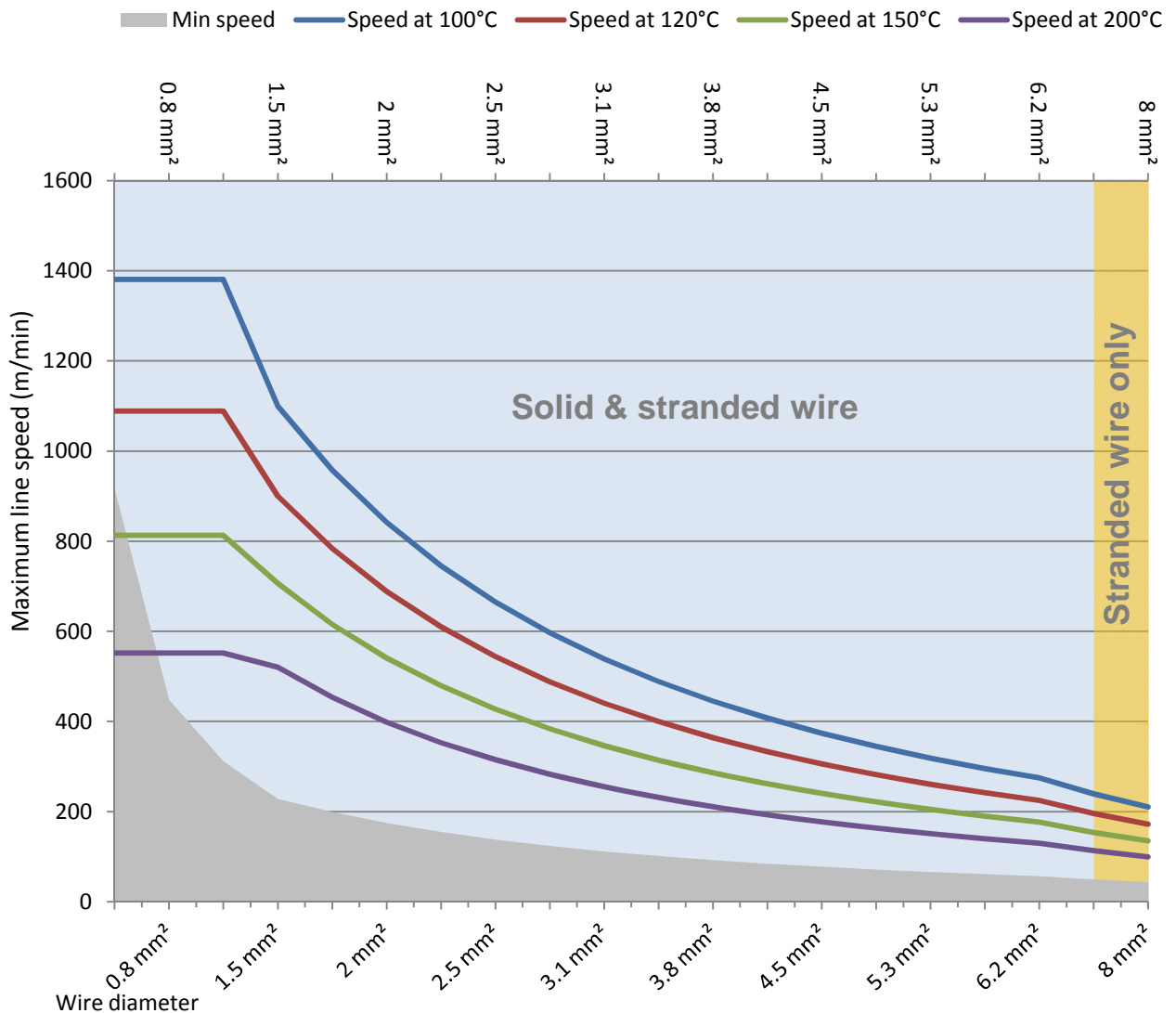
Max. solid wire diameter:	<b>1.60mm</b>
Max. stranded wire <b>area</b> / diam:	<b>3mm<sup>2</sup> / 1.95mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>20 kW</b>
Pulley diameter:	<b>160 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

\* Contact Proton Products for performance data for non-copper wire materials  
 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.



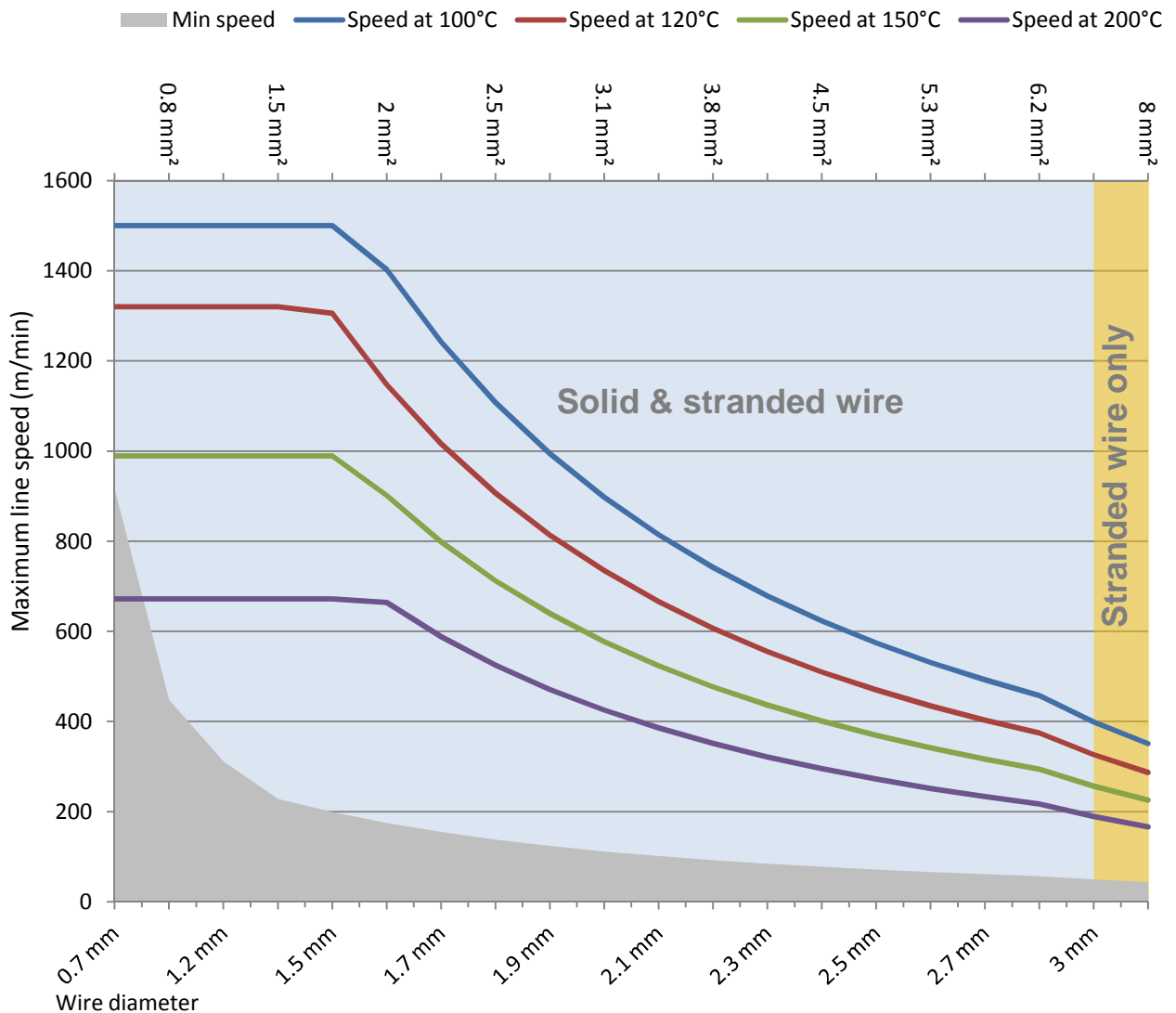
Max. solid wire diameter:	<b>3.00mm</b>
Max. stranded wire <b>area</b> / diam:	<b>8mm<sup>2</sup> / 3.2mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>200 VAC 3-phase</b>
Input voltage:	<b>180 V to 220 V, 47~65 Hz</b>
Power rating:	<b>10 kW</b>
Pulley diameter:	<b>300 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

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 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.



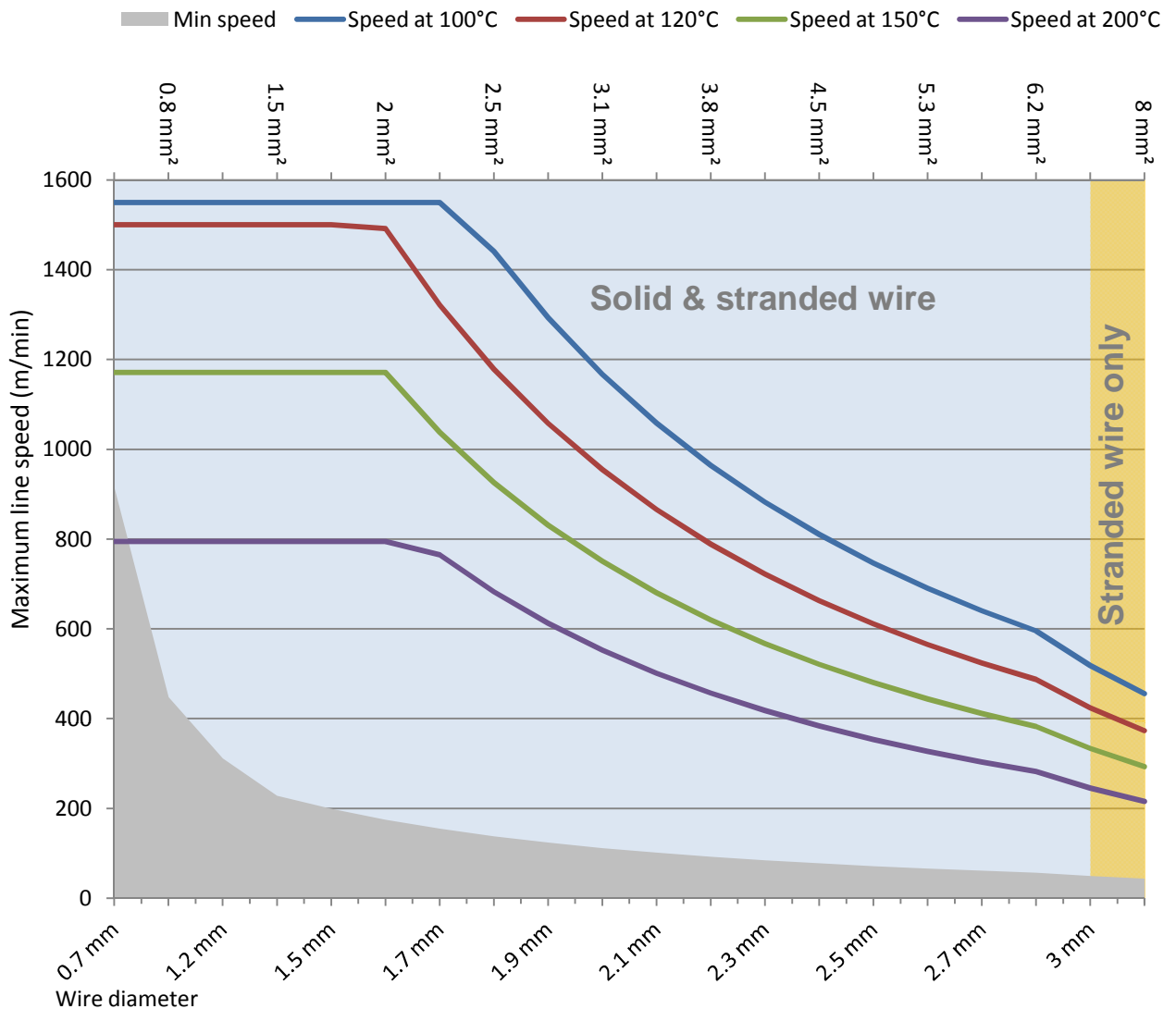
Max. solid wire diameter:	<b>3.00mm</b>
Max. stranded wire <b>area</b> / diam:	<b>8mm<sup>2</sup> / 3.2mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>12 kW</b>
Pulley diameter:	<b>300 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

\* Contact Proton Products for performance data for non-copper wire materials  
 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.



Max. solid wire diameter:	<b>3.00mm</b>
Max. stranded wire <b>area</b> / diam:	<b>8mm<sup>2</sup> / 3.2mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>20 kW</b>
Pulley diameter:	<b>300 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

\* Contact Proton Products for performance data for non-copper wire materials  
 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.

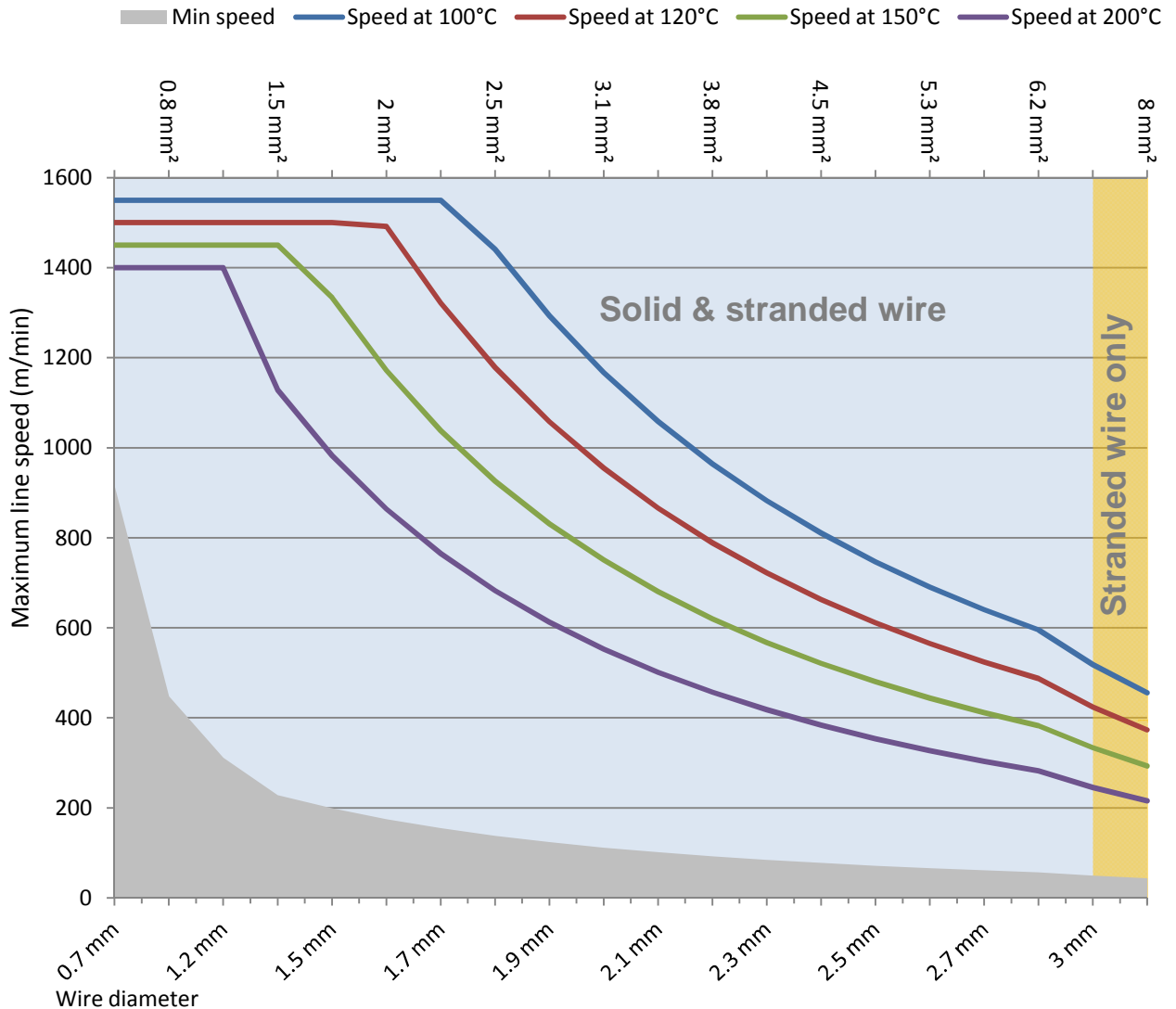


Max. solid wire diameter:	<b>3.00mm</b>
Max. stranded wire <b>area</b> / diam:	<b>8mm<sup>2</sup> / 3.2mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>25 kW</b>
Pulley diameter:	<b>300 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

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 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.



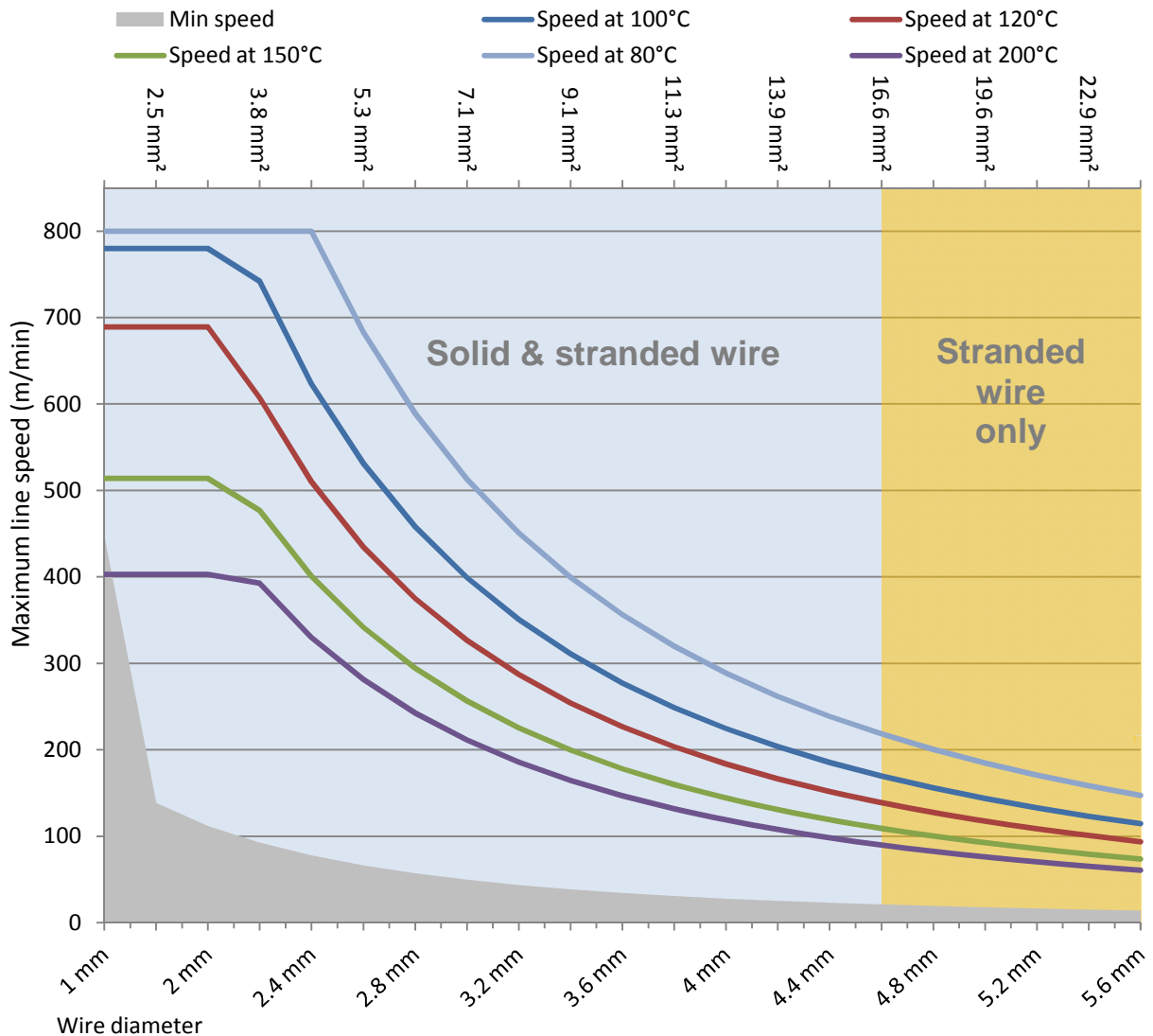
# PH300-25-400HT



Max. solid wire diameter:	<b>3.00mm</b>
Max. stranded wire <b>area</b> / diam:	<b>8mm<sup>2</sup> / 3.2mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>300°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>25 kW</b>
Pulley diameter:	<b>300 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

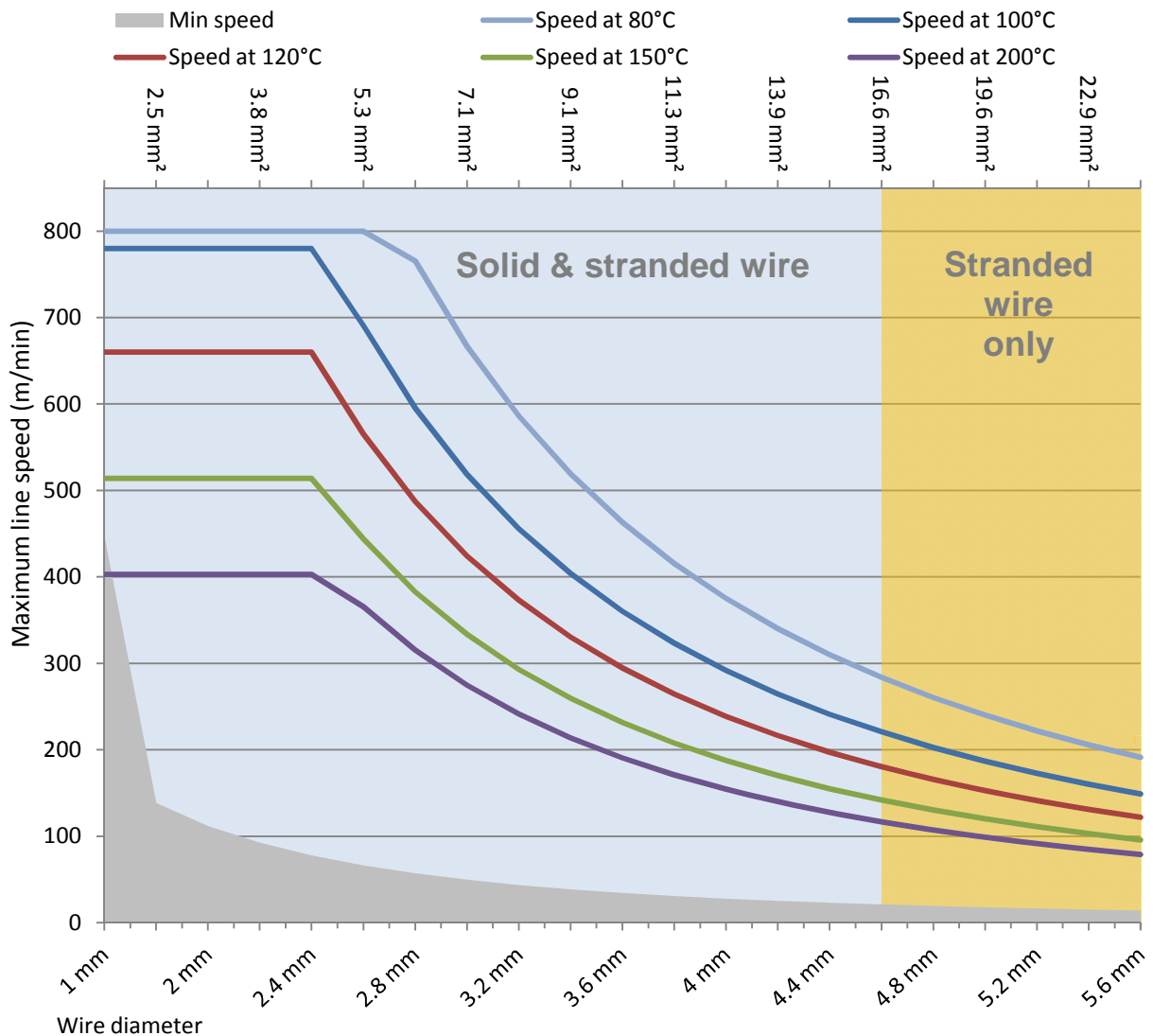
\* Contact Proton Products for performance data for non-copper wire materials  
 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.

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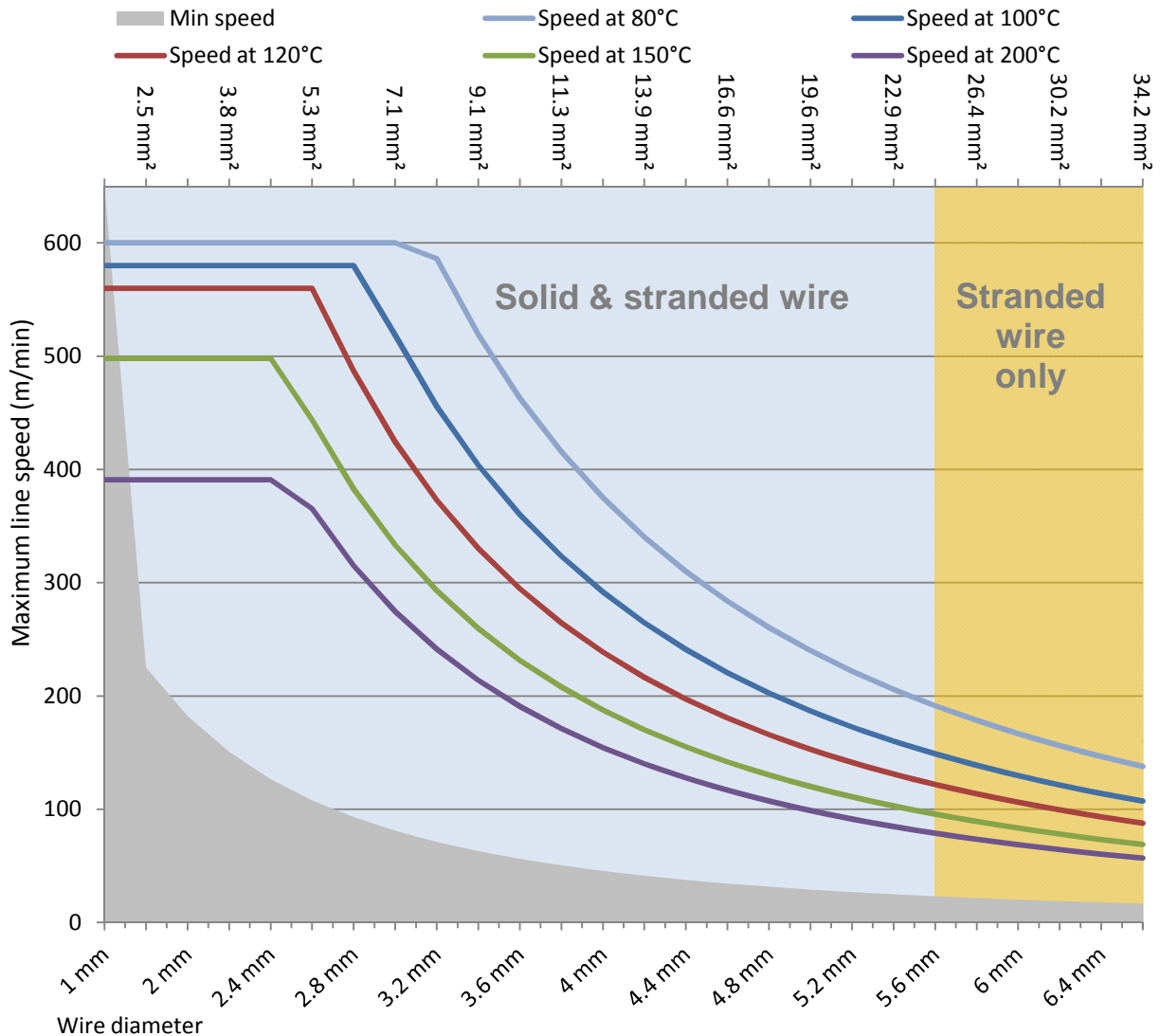
Max. solid wire diameter:	<b>4.5mm</b>
Max. stranded wire <b>area</b> / diam:	<b>25mm<sup>2</sup> / 5.64mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>20 kW</b>
Pulley diameter:	<b>450 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

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 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.



Max. solid wire diameter:	<b>4.5mm</b>
Max. stranded wire <b>area</b> / diam:	<b>25mm<sup>2</sup> / 5.64mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>25 kW</b>
Pulley diameter:	<b>450 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

\* Contact Proton Products for performance data for non-copper wire materials  
 These data are provided as a guide only. For more information, contact Proton Products.  
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.



Max. solid wire diameter:	<b>6.00mm</b>
Max. stranded wire <b>area</b> / diam:	<b>35mm<sup>2</sup> / 6.68mm</b>
Material:	<b>Copper (Can also preheat aluminium*)</b>
Max. wire temperature:	<b>200°C</b>
Power supply:	<b>400 VAC 3-phase</b>
Input voltage:	<b>360 V to 440 V, 47~65 Hz</b>
Power rating:	<b>25 kW</b>
Pulley diameter:	<b>600 mm</b>
Wire line height:	<b>980 to 1200 mm</b>

\* Contact Proton Products for performance data for non-copper wire materials  
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 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.