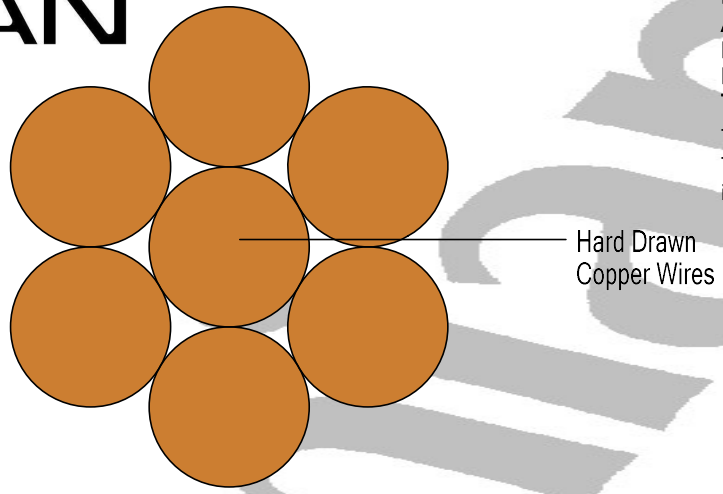
PRYSMIAN

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MECHANICAL / PHYSICAL PROPERTIES AND DATA	UNITS	VALUE
CONDUCTOR MATERIAL:		HD Cu
CONDUCTOR STRANDING (NOMINAL):	No./mm	7 / 2.00
CONDUCTOR C.S.A. (NOMINAL):	mm²	21.99
CONDUCTOR DIAMETER (APPROX.):	mm	6.0
CALCULATED BREAKING LOAD (CBL):	kN	8.90
MAXIMUM OPERATING TEMPERATURE:	°C	75
FINAL MODULUS OF ELASTICITY (Calculated):	GPa	120
COEFFICIENT OF LINEAR EXPANSION:	/°C x 10^{-6}	17
MINIMUM BENDING RADIUS (DURING INSTALLATION):	mm	120
MINIMUM BENDING RADIUS (INSTALLED SET IN POSITION):	mm	70
MINIMUM DRUM BARREL DIAMETER:	mm	145
MINIMUM RECOMMENDED BENDING (SHEAVE) DIAMETER:	mm	120
CABLE WEIGHT PER METRE (APPROX.):	kg/km	197

NOTES:
The value provided for CBL is calculated as per AS1746, and is a nominal value only.

ELECTRICAL PROPERTIES AND DATA	UNITS	VALUE
EQUIVALENT ALUMINIUM AREA (NOMINAL):	mm²	34.7
CALCULATED DC RESISTANCE (MAXIMUM):	Ω/km @20°C	0.815
AC RESISTANCE (MAXIMUM):	Ω/km @75°C	0.986
CURRENT RATING WINTER NIGHT (RURAL WEATHERED) STILL:	A	118
CURRENT RATING WINTER NIGHT (RURAL WEATHERED) 1 m/s WIND:	A	202
CURRENT RATING WINTER NIGHT (RURAL WEATHERED) 2 m/s WIND:	A	235
CURRENT RATING SUMMER NOON (RURAL WEATHERED) STILL:	A	92
CURRENT RATING SUMMER NOON (RURAL WEATHERED) 1 m/s WIND:	A	182
CURRENT RATING SUMMER NOON (RURAL WEATHERED) 2 m/s WIND:	A	216
CURRENT RATING WINTER NIGHT (INDUSTRIAL WEATHERED) STILL:	A	127
CURRENT RATING WINTER NIGHT (INDUSTRIAL WEATHERED) 1 m/s WIND:	A	207
CURRENT RATING WINTER NIGHT (INDUSTRIAL WEATHERED) 2 m/s WIND:	A	240
CURRENT RATING SUMMER NOON (INDUSTRIAL WEATHERED) STILL:	A	87
CURRENT RATING SUMMER NOON (INDUSTRIAL WEATHERED) 1 m/s WIND:	A	180
CURRENT RATING SUMMER NOON (INDUSTRIAL WEATHERED) 2 m/s WIND:	A	214
INDUCTIVE REACTANCE TO 0.3 m:	Ω/km	0.310
FAULT CURRENT RATING:	kA².sec	10
GEOMETRIC MEAN RADIUS:	mm	2.18

NOTES:
The value provided for DC Resistance is calculated as per AS1746, and is a nominal value only.
CURRENT RATINGS:
(a) Values given are calculated only.
(b) **Summer Day** based on 35°C Ambient Air Temperature, Temperature Rise by 40°C to Maximum Operating Temperature 50°C, Emissivity = 0.5, Absorbance =0.5, Solar Radiation Intensity =1000W/m², and Angle Of Wind (where applicable) =90°.
(c) **Winter Night** based on 10°C Ambient Air Temperature, Temperature Rise by 65°C to Maximum Operating Temperature 75°C, Emissivity =0.5, Absorbance =0, Solar Radiation Intensity =Nil, and Angle Of Wind (where applicable) =90°.

Customer Approval:
Name*:
Signature*:
Position*:
Company*:
Date*:
*To be completed & returned at order.

TITLE:

To AS 1746

7/2.00mm Bare Over Head Hard Drawn Copper Conductor

Reason For Re-Issue:
Not applicable, first issue.

Scale: NTS Colours are for illustration only and may not necessarily reflect actual colours in final product.

Drawn by: A. Vasta
Issue Date: 22-05-2018
Issue No.: 1

Drawing Ref No.:
7-2.00 mm HD Cu BOH (20199252)