David SOYEZ

De: Eric Jaillant <e.jaillant@urmet-captiv.fr>
Envoyé: mercredi 21 novembre 2012 16:59
À: David SOYEZ
Objet: TR: Fiche technique BIBUS / Resistance feu et eau
Pièces jointes: 690104-00-C.pdf; dielectric-table.pdf; IEC 60332-1.jpg

-----Message d'origine-----
De : Olivier JOLY - elbaC Cable [mailto:olivier.joly@elbac.fr] Envoyé : jeudi 3 mars 2011 10:35 À : Eric JAILLANT
Objet : Fiche technique BIBUS / Resistance feu et eau

Bonjour Monsieur JAILLANT,

Suite à votre demande, la fiche technique du BIBUS mentionne que la gaine PVC est IEC 332-1 soit l'équivalance de la résistance au feu classe 2 selon NF C
32-070 2.1. L'ensemble du cable a passé le test de combustion vertical C2 (cf photo jointe).

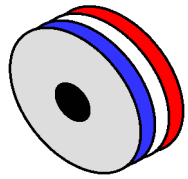
Pour la résistance à l'eau est se fait au niveau du gainage des conducteurs qui est en PEHD (polyéthylène haute densité) intrinsequemement très résistant à l'eau (cf tableau des matère plastique joint).

Espérant avoir répondu aux demandes de votre client.

Cordialement.

Olivier JOLY

690104-00 QUAD URMET BIBUS VOP Update C



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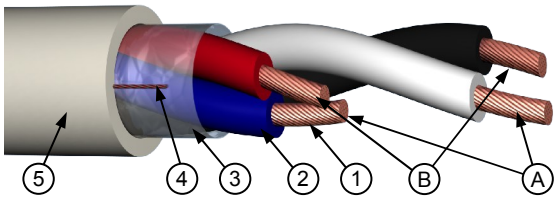


Construction

Group	A	B
Inner conductor		①
Material	Annealed copper	
Diameter	24 × Ø 0.20 ± 0.005 mm	32 × Ø 0.20 ± 0.005 mm
Area	0.75mm²	1.00mm²
Insulation		②
Material	PEHD	PEHD
Diameter	Ø 1.90 mm	Ø 1.90 mm
Assembly		
Construction	1 quad	
Colors	See color table	
Lay length	45 mm	
Mylar spiral		③
Material	PET	
Coverage	105%	
Rip cord		④
Material	Textile 200D	
Sheath		
Material	PVC 70P Ivory RAL 9001 Flame retardant IEC 332-1 (C2)	⑤
Diameter	Ø 7.0 ± 0.20 mm	
Mass	To define	
Marking on sheath		
Printing with XXX quantity in meter still available per reel WW/YY : Week/Year	« URMET BIBUS VOP - 690104 -WW/YY - XXX m »	
Color / Process	Black / Ink jet	
Step	1 m	

Meet Standards

RoHS European directive

Electrical characteristics	A
Max. conductor DC resistance	24 Ω/km
Rated voltage	300 V
Insulation resistance 20°C	> 500 MΩ.km

Electrical characteristics	B
Impedance	100 Ω
Capa. conductors/cond. (1KHz)	< 65 pF/m
Capa. cond./screen (1KHz)	< 130 pF/m
Max. conductor DC resistance	18 Ω/km
Propagation velocity ratio	66%
Rated voltage	300 V
Insulation resistance 20°C	> 500 MΩ.km

Color table

Pairs	Colors A	Colors B
A	White RAL 9003	Blue RAL 5005
B	Red RAL 3020	Black RAL 9005

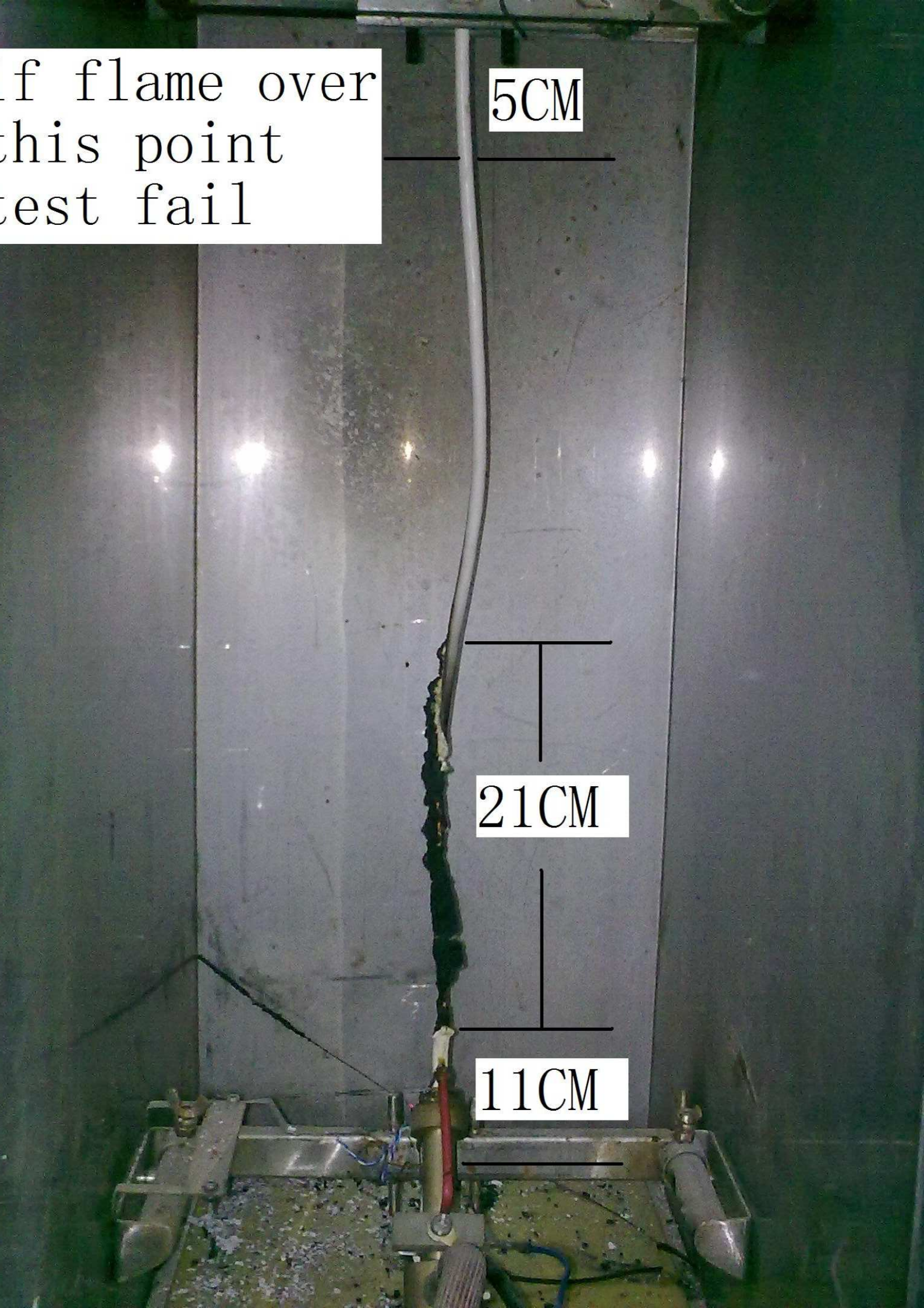
Thermal characteristics	
Rated Temperature	- 15 to 80 °C

Mechanical characteristics	
Static bending radius	r = 6 x Ø sheath
Dynamic bending radius	r = 12 x Ø sheath

Packaging

-G1 : 100m / Coil
-R2 : 200m / Easy Reel Box
-W5 : 500m / Carton drum

Notes


f flame over
this point
test fail
5CM
21CM
11CM

DIELECTRIC

elbaC Cable

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Dielectrical Material / How to choose

Matières dielectrique / Aide au choix

	Properties / *Propriétés*	MATERIAL / *MATIERE* PVC	PVC-C	LSZH	PE : POLYETHYLENE LDPE *PEBD*	FOAMED *MOUSSE*	HDPE *PEHD*	PP : POLYPROPYLENE SOLID *SOLIDE*	FOAMED *MOUSSE*	PUR POLYURETHAN	PA POLYAMIDE	FEP	PTFE	RUBBER *CAOUTCHOUC*	NEOPRENE	SILICONE
Cost *Coût*	Raw material competitiveness *Compétitivité de la matière première*	++	+	=	+++	+++	+++	++	++	=	=	-	-	=	=	=
	Transformation competitiveness *Compétitivité de la transformation*	++	++	++	+++	++	+++	+++	+	=	+	+	-	=	=	=
Physic *Physique*	Mass [Kg/m³] *Masse*	1400	1550		930	390	950	920	420	1200	1130	2150	2160	1400	1230	1100 1300
	Abrasion resistance *Résistance à l'abrasion*	=	=	=	+	=	++	=	=	+++	++	++	+++	++	+/++	+
	Weather, Sun resistance *Résistance climatique et solaire*	+/++	+/++	+	++	++	++	++	++	+	++	+++	+++	=	+	+++
	Nuclear Radiation Resistance *Résistance au rayonnenemt nucléaire*	=	=	=	+/++	+	+/++	=	=	+	=/+	=	-	=	=/+	++
	Underground Burial *Apllitude à l'enfouissement*	=	=	-	+		++			+	-	++	++			
Thermical *Thermique*	Normal Low Temperature *Température minimum d'emploi*	-20	-20	-40	-40	-60	-100	-40	-40		-40		-190			-80
	Normal High Temperature *Temperature maximum d'emploi*	80	105	80	70	80	90	105	105		115		250			150 200
	Low-Temperature Flexibility *Flexibilité à basse température*	=	=	++	++	++	++	-	-	++	+	+++	+++	+	=/+	+++
	Flame Resistance *Résistance à la flamme*	++	++	++	-	-	-	-	-	+	-	+++	++	-	+	=
Electrical *Electrique*	Dielectrical constant ε_r	3,3	3,4	2,8	2,4	1.45 1.6	2,4	2,3	1.45 1.6		3,6 7	2,1	2,1	2 4	4 6.7	2.8 4.7
	Constante diélectrique															
	Dielectrical strength [kV/mm] *Rigidité diélectrique*	35	45	60	80	80	90	50	50		14 25		49			12
Chemicals compatibility *Compatibilité chimique*	Acide	+/++	+/++	+	+/++	+/++	++	++	++	=	-/=	++	++	=/+	+	=/+
	Alkali *Bases*	+/++	+/++	+	+/++	+/++	++	++	++	=	++	++	++	=/+	+	=/+
	Alcohol *Alcool*	-/=	-/=	=	++	++	++	++	++	=	-	++	++	+	=/+	+
	Aliphatic Hydrocarbons *Hydrocarbures aliphatiques*	-	-	+	+/++	+	+/++	-/=	-	=	+	++	++	-	+	-/=
	Aromatic Hydrocarbons *Hyrdocarbure organiques*	-/=	-/=	-	-	-	-	-/=	-	=	+	++	++	-	-/=	=
	Halogenated Hydrocarbon *Hydrocarbure halogénés*	-/=	-/=	+	+	+	+	-	-	=	+	++	++	-	-	=
	Oil *Huiles*	=	=	+	+/++	+	+/++	=	=	++	++	+++	++/+++	-	+	=/+
	Oxydation	++	++	+	++	++	++	++	++	++	++	+++	+++	=	+	++
	Ozone	++	++	++	++	++	++	++	++	++	++	++	+++	-	+	+++
	Water *Eau*	=/+	=/+	=	++	++	++	++	++	-/+	-/=	++	++	+	++	+/++

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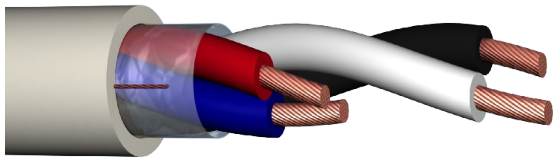
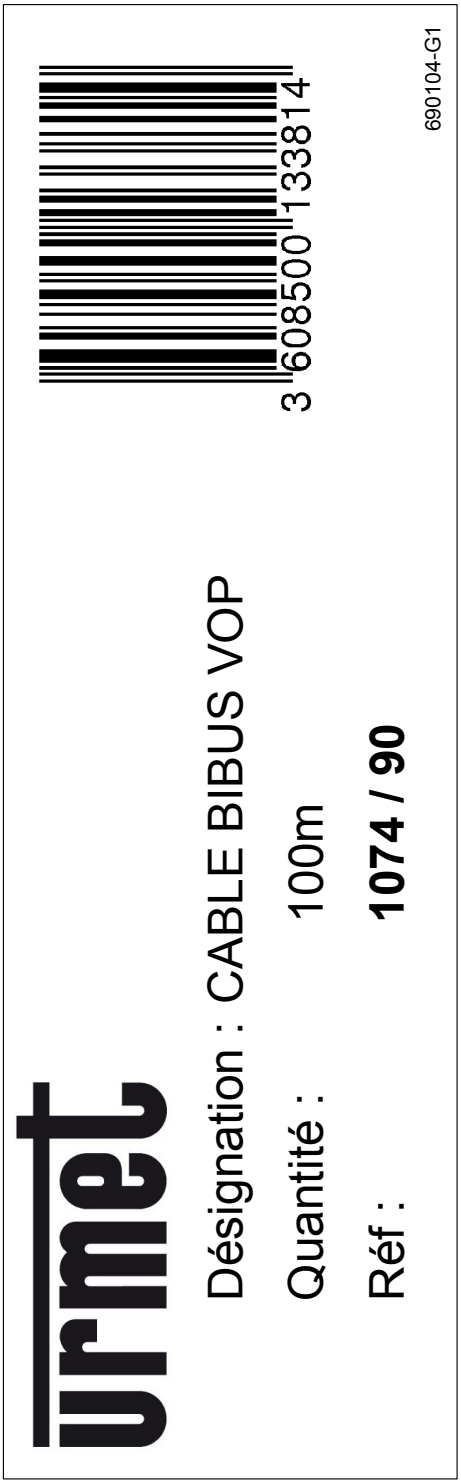
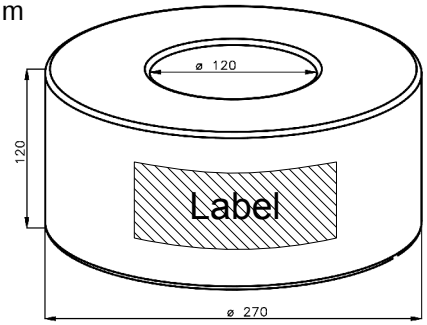


Label



Packaging

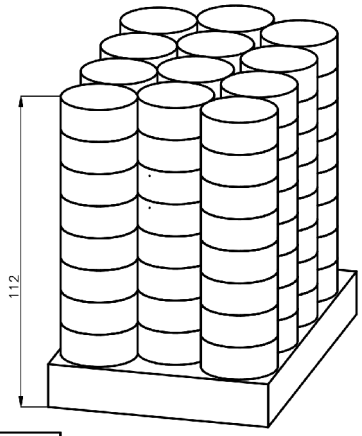
100m coil under skrinked PE
Ø 270 × 120 mm

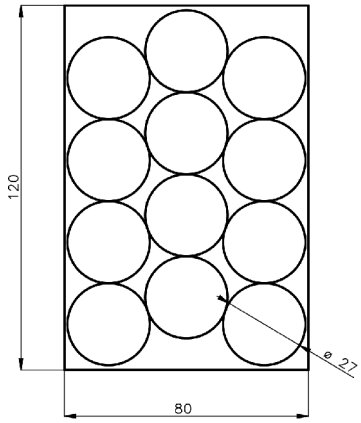


Pallet

Length : 120 cm
Width : 80 cm
Height : up to 140 cm

Quantity per pallet :
8 layers of 4 × 3
= 96 coils = 9.6km





Notes

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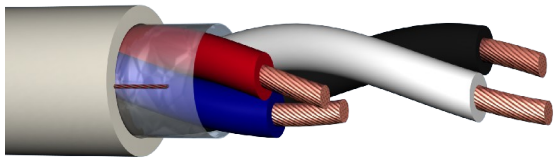

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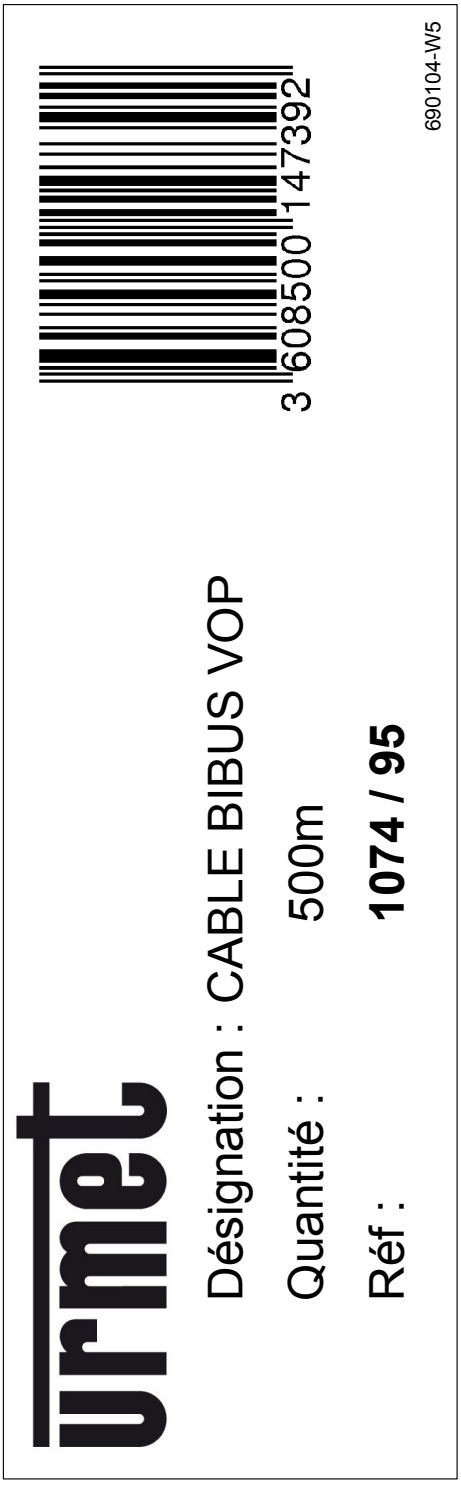
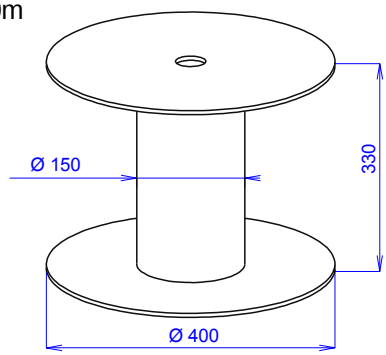


Packaging

Wooden drum of 500m
Ø 400 × 305 mm



Pallet

Length : 120 cm
Width : 80 cm
Height : up to 140 cm

Quantity per pallet : 3 layers of 6 drums = 9 km

Notes