

# PRODUCT STANDARD DETAILED ENGINEERING

TG70262

Page 1 of 3

Based on HELUKABEL Datasheet

# PURCHASE SPECIFICATION FOR 1.3SQ.MM,2 & 3CORE, CONTROL CABLE

1. SCOPE

This specification covers the details of 1.3 sq.mm,2&3 core control cable.

# 2. GENERAL REQUIREMENTS

#### 2.1 APPLICATION

This specification is applied to the cable for pressure transmitters and temperature element wiring in Generator Auxiliary skid wiring.

## 2.2 DOCUMENTS TO BE SUBMITTED

Manufacturer shall submit the specified number of copies of the following documents provided in Table 1 for Purchaser's approval within 2 weeks after receiving Purchaser's order and drawing.

Table 1 Documents to be submitted

Document Title	be submitted
	Test and inspection Report
Number of copy	Tost and inspection Report
indifficer of copy	2

#### 2.3 MAKE

Helukabel and Equivalent make for control cable is acceptable.

### 3. QUALITY ASSURANCE

The quality control shall conform to the requirements of ISO 9001.

			T				
	1						
					NAME	SIGN. & DATE	
DATE				TRANSLATED BY			
-જ	MATERIAL SCIENCE		· .	WORKED BY	TMP	barran phod rd rock	
SIGN	QUALITY	TRB	TSL.	CHECKED BY	MNR	M. 190000 20/10/14	
	AGREED DEPTT.	NAME	DATE & SIGNATURE	SUPERVISED BY	KHN	legel [- 2 ] . ].	
						A NO	
NO.				APPROVED: NRD	03.11.14		
INVENTORY NO.	REV. NO. 00			PREPARED	ISSUED	: DATE	
Ź .	DATED						
				L			

COPYRIGHT AND CONFIDENTIAL
The information on this documents is the property of LACT-MHI NQTURBINES) Limited.
It must not be used directly or indirectly in any way dertimental to the interest of the company

						· · · · · · · · · · · · · · · · · · ·	<del></del>	
	PRODUCT STANDARD  DETAILED ENGINEERING							
4TE							TG70262	
SIGN & DATE		V	7 141111		MELINING			-
NS IGN								
							Page	2 of 3
						· · · · · · · · · · · · · · · · · · ·		
	4	.TEC	CHNICAL SPECIFICATION			·	1	
DES								
SUPERSEDES INVENTORY NO.	4	.1	General Technical Characte					
SUP	.   '							
INV INI CI			Table 1					
1			Properties Conductor material	VALUES				
			conductor material	Bare copper				
	.		Type of Cable	Stranded wires				
			No of Strands/dia	Sq.mm cross sec	tional area			
			Core insulation	PE type	· · · · · · · · · · · · · · · · · · ·			
				a)For two core:				
				Core A -Black,Co	re B-White			
				b)For Three Core	2:			
₽				Core A Black				
Į į			Cable color	Core B White				
		-	Outer Sheath	Core C Red				
F T			Temperature Range	PVC insulation -40°C to +70°C				
CC			Operating Top level voltage	300V(max)				
ANI BINES) Ipany			<u>g</u> -preserventage	Core/Core:2000\	,			
HT V(TUR the con			Test voltage	Core /Scree:1000				
RIG MHI J	-		Insulation resistance	5GOhmXkm(min)				
)PY f L&T the int			Inductance	0.75mH/km(max				
COPYRIGHT AND CONFIDENTIAL property of L&T-WHI JV(TURBINES) Limited.			Cross-talk attenuation	0.88dB/km at 60l	(Hz(min)			
onts is the			Minimum bending radius	7.5XcableØ appro	ox			
docume Iy in an			Conductor					
on this indirect	-	-	resistance(1.3mm2)	14.22Ω/km(max)				
The information on this documents is the It must not be used directly or indirectly in any way det			Mutual Capacitance(Core to Core)	75nF/km				
The in								
ft must no	**A	dditio	onal requirement:				•	
	1. 7	The c	cable shall be self extinguishi	ing and flame reta	rdant.			
	2. T	he e	electrostatic screen shall be p	provided to protec	screened pairs	againat a u		
DATE	field	ds.	·	, and protect	concerned pairs a	agamsi out	er electros	static
& D/	3. P	VC o	outer Jacket shall be reinforced					
SIGN 8	•		Tator dadkot shall be relinion	eu	•			
SI								
O								
ORY 1								
INVENTORY NO.					Worked by	TMP	Cayou	2 Prof row
4	REV	. 00			Checked by	MNR	M. Nogoles	20/10/14
					· · · · · · · · · · · · · · · · · · ·		7.70	+ - 11-119-

	<u> </u>						· -			Karaman yang salah	
	DATE			PRODUCT STANDARD DETAILED ENGINEERING						TG70262	
	SIGN & DATE										
									Page 3	of 3	
SUPERSEDES INVENTORY NO.	MO IMIVENTODY NIC	4.2 Dir	mension	ns and Code	e designations	Outou					
		Sr.No		f Pairs X cros	SS Outer Sheath	Outer 0 Ø mm	Coppe Weigh Kg/km	t Weight	l	ial code nation	
		1	1X2X1.3		Black	8.8	31	102		5260001	
		2		1X3X1.3	Black	9.7	44	116		5260001	
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of L&T-MH JV(TURBINES) Limited.  ust not be used directly or indirectly in any way detrimental to the interest of the company		5. PAC  Product transport  (1) N  (2) D  (3) O  (4) Le  (5) M	et shall ortation ame or imension order No ot No.	r product N on, Quanti o.	CATION y packed to previong points shall lo.	/ent dam be clearl	age or mo y indicated	isture absorp	otion durin	g	
. #											
DATE											
SIGN &											
Y NO.	-		· · · · · · · · · · · · · · · · · · ·			·	·		· · · · · · · · · · · · · · · · · · ·		
INVENTORY NO				A A		V	Vorked by	TMP	laram	2 solutions	
Ä		REV. 00				C	hecked by	MNR	M. Nogolog	80/10/204	