PTFE Cable

1x0.5SQ	Expantel Code no		Date of issue		
	EX-5-0002		2022-05-03		
	Issues by	Approved by	Rev. no	Revised by	Revised date
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Construction

Item	Material	Diameter	Remark
Center conductor	NaCu	0.845 ± 0.05 mm	0.180 mm /19 Stranded
Dielectric	PTFE	1.40 ± 0.5 mm	

☞NaCu : Nickel-coated Soft or Anneal Copper Wire

Electrical Data

Test description		Specification	Remark
Dimensions	outer cable diameter	1.400 ± 0.05 mm	
	Insulation thickness	Min. 0.22 mm	
	conductor diameter	0.180 ± 0.008 mm	
	concentricity	Min. 75%	
electrical properties	conductor resistance	38.6 Ω/km	
	withstand voltage	No breakdown (AC 2kV/1min)	
	Insulation defect (in process)	No breakdown (AC 4kV/0.15s)	
	Insulation Resistance	Min. 10^12 Ω.cm	
mechanical properties	The tensile strength	Min. 20MPa	
	elongation	Min. 200%	
	strip force	Min. 6N / 50 mm (Striping speed : 250 mm/min)	
	Cold resistance after short-term aging (-40℃/4hr)	pre-conditioning 290℃/48hr before winding test	
heat aging	Thermal long-term aging (280±2℃/3,000hr)	No crack & no breakdown	
	Thermal overload capacity (300±2℃/240hr)	No crack & no breakdown	
	High temperature pressure test (300±2℃/4hr)	Load 0.6N, Max. 50% indentation	
	Heat shrinkage (290±2℃/1hr)	Max. 2%	

TEL : 82-31-998-6526 FAX : 82-31-998-6528 e-mail : expantel@expantel.com http://www.expantel.com

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