Inspection and Test Plan for Power Cable										
No				Varifying Decument	Activity By			Remark		
No.	Inspection and Test Plan	Reference Document	Acceptance Criteria	Verifying Document -	Manuf.	TPI	Client	-		
1	Pre-Inspection Meeting	Spec.	Spec.	МОМ	Н	Н	Н	-		
	Before Manufacturing									
2	DWG, Design, Calculation Document	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	DWG, Calculation book	н	R	А	-		
3	Power Cable Conductor Resistance Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А			
4	Power Cable Withstand Voltage Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А			
5	Power Cable Insulation Resistance Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А			
6	Power Cable Discharge Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	н	R	А			
7	Power Cable Tensile Strength and Elongation Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А			
8	Power Cable Aging Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	н	R	А			

9	Power Cable Heat Shock Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А	
10	Power Cable Heat Distortion Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А	
11	Power Cable Flame Resistance Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А	
Materials								
12	Raw Material Inspection	ASTM	ASTM	Original Material Certificates	Н	н	-	-
13	Review of Certificates	ASTM	ASTM	Certificates	Н	н	-	-
14	Material Identification	ASTM	ASTM	Report	Н	н	-	
During Fabrication								
15	Fabrication Inspection	DWG/Spec	DWG/Spec	Report	н	SW	-	

16	Configuration Inspection for Cable Type, Number of Conductors, Conductor Size, Conductor Coding, Insulation Type and size, Fillers, Water Stoppers, Armour, Shield, Outer diameter, Other Specified Elements/Dimensions and Cable Identification	DWG/Spec	DWG/Spec	DWG/Spec	Н	SW	-	
17	Drum Inspection for Labeling, Sealing, Lagging Drum quantity and Conformance of quantity	DWG/Spec	DWG/Spec	Report				
18	Power Cable Conductor Resistance Test	Procedure	Procedure	Report	Н	Н	-	
19	Power Cable Withstand Voltage Test	Procedure	Procedure	Report	Н	Н	-	
20	Power Cable Insulation Resistance Test	Procedure	Procedure	Report	Н	Н	-	
21	Power Cable Discharge Test	Procedure	Procedure	Report	Н	Н	-	

22	Power Cable Tensile Strength and Elongation Test	Procedure	Procedure	Report	Н	Н	-		
23	Power Cable Aging Test	Procedure	Procedure	Report	н	Н	-		
24	Power Cable Heat Shock	Procedure	Procedure	Report	Н	Н	-		
25	Power Cable Heat Distortion	Procedure	Procedure	Report	Н	Н	-		
26	Power Cable Flame Resistance Test	Procedure	Procedure	Report	Н	Н	-		
	Final Inspection								
27	Final Visual & Dimensional Check	DWG	DWG	Report	Н	Н	-	-	
28	Check of Final Book	Spec.	Spec.	DWG/ P.O	Н	R	-		
			Documentation						
29	Inspection Reports	Spec./DWG	Spec./DWG	Report	Н	R	-	-	
30	NCR	Spec./DWG	Spec./DWG	Report	Н	R	-	-	
31	Review Final Data Report	Spec./DWG	Spec./DWG	Report	Н	R	-	-	
Pre-Shipment Inspection									
32	Preservation and Packing	Spec.	Spec.	Report	Н	Н	-	-	
33	Marking	Spec.	Spec.	Report	Н	Н	-	-	

34	Loading Inspection	Spec.	Spec.	Report	н	Н	-	-
35	Shipping Document Control	Procedure	Spec.	Packing List	н	Н	1	-

Abbreviations:

H: Hold Point = Hold on the production till TPI Inspector performs inspection and supervise the required test

W: Witness Point = Manufacture shall notify client and TPI Inspector but there is no hold on the production; Client can waive this inspection based on his discretion and informs TPI Inspector accordingly.

R: Document Review = Review means Review document, which includes of material test certificates, WPS, PQR, NDT Procedures and etc.

A: Approval

SW: Spot Witness = for items with spot witness manufacture shall notify TPI inspector as fulfilling the monitoring; For example one random visit for whole UT tests or one or two visits for whole surface preparation works for painting.

MOM: Minute of Meeting

P.O: Purchase Order

for more information review following articles:

http://www.inspection-for-industry.com/third-party-inspection-for-power-cable.html http://www.inspection-for-industry.com/inspection-and-test-plan-for-power-cable.html