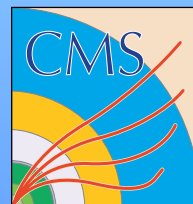


Production and Qualification Schedule



Considerations

- CMS Tracker schedule
 - production
 - installation

- Discussions with manufacturers
 - final details to be defined in contracts

Summary Overview

	Q4 00	Q1 01	Q2 01	Q3 01	Q4 01	Q1 02	Q2 02	Q3 02	Q4 02	Q1 03	Q2 03	Q3 03	Q4 03	Q1 04	Q2 04	
Buffered Fibre	IT		AVT	C1	Prod (1m)											
MU-MU jumpers		IT		C2	P-prod 0.02	Qualif 1	Prod 0.08	0.15	0.15	0.15	0.15	0.15	0.15			
Laser Transmitter		IT		C3	P-prod 0.02	Qualif AVT	Prod 0.08	0.15	AVT 0.15	AVT 0.15	AVT 0.15	AVT 0.15	AVT 0.15	0.15		
Ruggedized Ribbon	IT			C1	AVT	Prod (3m) 1										
12MU-12MU Ribbon Harness		IT		C2		P-prod 0.02	Qualif 0.18	Prod 0.2	0.2	0.2	0.2	0.2	0.2			
Terminated Ribbon				IT C5			P-prod 0.02	Qualif 0	Prod 0.18	0.2	0.2	0.2	0.2	0.2		
Dense Multi-Ribbon Cable	IT			C1	AVT	Prod (3m) 1										
Terminated Multi-Ribbon Cable				IT C5		P-prod 0.02	Qualif 0.08	Prod 0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
ARx12 ASIC			Des		Prod 1	Test 1										
Rx Module <i>(most aggressive scenario)</i>			IT		C4		Prod 1									
Legend:	IT	Invitation to Tender							Prod	Production						
	C	Contract							P-prod	Pre-Production						
	AVT	Advance Validation Test							Qualif	Qualification						

Conclusions

- Preliminary, realistic production schedule in QA manual
 - Fixed sequence of inter-linked deliveries and tests
 - fibres → connectors → transmitters
 - fibre ribbon → ruggedized cable → ribbon harnesses → terminated ribbons
 - fibre ribbon → multi-ribbon cable → terminated multi-ribbon cable
 - ARx ASIC → Rx module
 - Note, Rx module determines termination connector for ribbons