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| Traveler Title | Coaxial Cables Receiving Inspection |
| Traveler Abstract | Manufacture and qualification of coaxial cables Cryomodule project |
| Traveler ID | P1-TSTMS-COAX-INSP |
| Traveler Revision  | R1 |
| Traveler Author | L. King |
| Traveler Date | 06-Aug-2020 |
| NCR Informative Emails | forehand |
| NCR Dispositioners | king,kdavis |
| D3 Emails | king,kdavis,forehand |
| Approval Names | L. King | K. Davis |  | 1. Reilly
 |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | Reviewer | Reviewer | Project Manager |

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| --- | --- |
| References | List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents. |
| Excel spreadsheet template ExcelCoaxCable for coaxial cable qualification. |  |  |  |  |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| Step No. | Instructions | Data Input |
| 1 | Inspect assembled cable for physical damage. Check RF connectors, their attachment joints and the length of the cable body for discontinuities, cuts, abrasions, kinks, or other damage. | [[PassedInspect]] <<YESNO>>[[InspectTechnician]] <<SRF>> [[InspectComment]] <<COMMENT>> |
| 2 | Perform electrical measurements on soldered cable conform. Using a calibrated Vector Network Analyzer, measure the S11 and S21 of the cable at 1497MHz and 2994MHz. Record in the ExcelCoaxCable: date, operator, coaxial cable ID number, and electrical measurements.If the coaxial cable fails the electrical measurement, report that in the comment box and affix a red “Do Not Use” cable tag to each end of the bad cable. Upload the ExcelCoaxCable file. | [[VSWRDate]] <<TIMESTAMP>>[[VSWRTechnician]] <<SRFTM>> [[PassedVSWR]] <<YESNO>>[[VSWRcomment]] <<COMMENT>>[[ExcelCoaxCable]] <<FILEUPLOAD>> |
| 3 | Is this coaxial cable ID qualified for future assembly on a cryomodule? | [[CableSN]] <<SN>>[[CoaxCableQualified]] <<YESNO>>[[QualTechnician]] <<SRFTM>> |
| 4 | Protect the two RF connector ends with plastic caps. Roll cable(s) into coils with a diameter of 12 inches or more. Groups of qualified cables may be gathered into bundles of no more than 25 cables. Place cables or bundles in sealed plastic bags and place into inventory.  | [[PackageDate]] <<TIMESTAMP>>[[PackageTechnician]] <<SRF>> |