

 National Aeronautical Laboratory	Documentation Sheet	Document Classification Restricted
Title : Failure of Aileron Control Cable in Ajeet Aircraft MK-E-2015	Document No. PD MT 8715 Date of issue: Mar. '87	
Author(s) : S.Radhakrishnan, R.V.Krishnan, A.C.Raghuram, M.A.Venkataswamy and V.Ramachandran	Contents 6 pages incl. 7 figures	
Division : Materials Science	No. of copies: 12	
External participation :	NAL Project No. MT-9-861, MT-1-167	
Sponsor : Aeronautics R & D Board	Sponsor's Project No. Aero/RD-134/100/10/	
Approval : A.C.Raghuram	84-85/394	
Remarks :	26	
Keywords : Aileron control cable, Contact wear, Thinning, Tensile failure		
Abstract :	<p>The Aileron control cable of an Ajeet aircraft was found snapped. On optical and scanning electron microscopic examination, it was found that the majority of the strands of the cable had thinned due to excessive contact wear with a pulley and subsequently failed in tension.</p>	