

The weak link in a chain, or an aircraft control cable, can upset the applecart.

Oh, the cable won't fail sudden-like because it's made up of 7 strands with either 7 or 19 wires in each strand. It's woven together for added strength.

But, one wire will let go—then another. You'll have time to spot broken wires, and save the day, if you eye the control cables as called for in the bird PMI and PMP checksheets.

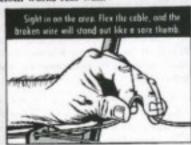




When you eye the cables focus on those places where the cable makes contact with pulleys and fairleads. That's where you'll get cable wear and broken wires.

Even with 20-20 eyesight you can't spot broken wires right-off. And running your hand along the cable will give you a mean cut when you hit a broken wire. So, latch onto a piece of cloth. Cheesecloth works real well.





The checksheets usually have the lowdown on how many broken wires are allowed in each strand before the cable has to be changed.

	WIRES PER STRAND	ALLOWABLE BROKEN V	CABLE TYPE	LOCATION
2 per inch of strand provided that not more than 3 axist in that inch of coble		7 . 7	CONUS	
HAVE IT, HERE'S A CHART OF	HAVE IT, HERE	3 per 1 ft length of cable	7 x 7	OVERSEAS
ITS TO GUIDE YOU	STANDARD LIMIT	3 per 2 ft length of cable	7 x 7	COMBAT
3 per inch of strend provided that not more than 6 exist in that inch of cable 6 per 1 ft length of cable 6 per 2 ft length of cable 1 broken was per length of cable		7 x 19	CONUS	
		ó per I ft length of cable	7 x 19	OVERSEAS
		6 per 2 ft length of coble	7 x 19	TABMOD
		I broken was per length of	1 x 19	ALL

If you have any doubes that a cable is good after your broken-wire count, change the cable. A corroded cable, for example, should get the heave-ho.

Scrap badly worn cables even the the number of broken wires is within limits. Here're the wear limits.

Any 7 x 7 cable with 3 wires or less per inch worn not more than half way thru the wire diameter, or any 7 x 19 cable having 6 wires or less per inch worn not more than half way thru the wire diameter is OK. No broken wires are allowed in the wear spots.

One less worn wire is allowed for each broken wire in the same inch. It's OK to have more than one wear spot along the cable. But no adjacent wear spot is allowed around the circumference of the cable.

When you come across a kinked, twisted or bird-caged condition that won't straighten out under normal cable tension, change the cable.

