

PDF A	Ordering, Shipping, Designation, Definition	C:\ Handbook/06-
01-01-02	Standards	04-EN 12385-2-Berichte-01
	Steel Wire Ropes, Their Terminations and Slings	
6.4.1	EN 12385 Steel Wire Ropes – Safety Part 2: Definitions, designation and classification	Page 1 of 2005-04-29

What is different and misunderstanding in EN 12385		
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	There is no system in the designation, symbol part. The old English abbreviation has been introduced for all other languages.	
	Errors which can be made today:	
3.6.1.3	Rotation resistant ropes. There is no differentiation anymore between Rotation resistant ropes and low rotation ropes.	
3.2.1	Definition Strand: an element of rope normally consisting of an assembly of wires of appropriate shape and dimensions laid helically in the same direction on one or more layers around a centre	
3.6.2.1	Spiral rope: An assembly of at least two layers of wires laid helically over a centre usually a round wire. At least one layer is closed in the opposite direction (contra lay)	
3.6.2.2	Spiral strand rope Spiral rope comprising only round wires. Spiral strand rope was called up to now:: multi layer strand rope (rotation resistant rope).	
	Prof. K. Feyrer. Drahtseile Bemessung, Betrieb, Sicherheit Page 36 Two and tree layer round stranded ropes are called "Spiral round strand ropes". This was also the definition in DIN	
	A 7 wire construction is strand and not a spiral strand rope. see Definition for spiral strand ropes 3.6.2.1	
3.8.6	Contra Lay: rope in which at least one layer of wires in a spiral or one layer of strands in a stranded rope is laid in the opposite direction to the other layers	
3.3.3	Steel core (WC) Core made from steel wires arranged as a round strand (WSC) or as an independent strand rope (IWRC)	
	Ropes with "parallel closed steel core" are now "parallel closed stranded ropes"	
	Prof. K. Feyrer. Drahtseile Bemessung, Betrieb, Sicherheit Page 29 Steel cores parallel closed SESP. This was valid for all literature	
3.6.1.4	Parallel closed stranded rope: Rope consisting of at least two layers of strands laid helically in one closing operation around a strand or fibre centre.	
4.3.3	Table 4: parallel closed ropes. Parallel wire rope centre PWRC Table 7 parallel closed ropes. B.2.2.3 parallel closed ropes 12385-4 shows no tables for parallel closed ropes. This construction is also not anymore a rope with steel core. By definition it is a multiple layer rope. That means that the discarding criteria for multi layer rope construction are now valid.	
EN 12385-1 5.1.1.1	All wires of the same size and shpe in the same wire layer shall be of the same tensile strength grade. Remarks: Different tensile strenght for different wire diameter, used in the right way will improve the rope quality. In the USA this is normal practice because the the fundamental steel curve.	