

CTL DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
IEC 60227-1:2007	5.1	DSH 2173	2020
Category			
CABL			
Subject	Keywords	Developed by	Approved at
Applicability of class 6 copper conductor in flexible cables	- Class 6 copper conductor - flexible cables	ETF 06	2022 CTL Plenary Meeting
Question			
Is a copper conductor according to Class 6 of IEC 60228 allowed to be applied in flexible cables, where a conductor according to Class 5 is required by the particular specifications?			
Decision			
A conductor according to Class 6 of IEC 60228 is acceptable to be used in a flexible cable, e.g. type 60227 IEC 52, where conductors according to Class 5 are required by the IEC 60227-5 standard, provided the cable fulfills all relevant requirements. In this case, the conductor shall be typically regarded as a conductor according to Class 5 in the assessment and test report of the cable.			
Explanatory notes			
Rationale: A copper conductor according to Class 6 of IEC 60228 can also fulfill the requirements of a conductor according to Class 5 in terms of wire diameter and electrical resistance.			