

# CHALLENGER OF RECORD & DEFENDER

## AMERICA'S CUP 36

### AC75 Interpretation 012

of

### AC75 Class Rule Version 1.2 issued 10 December 2019

#### Rule References:

- 1.3 An **AC75 Class Yacht** shall comply with the **AC75 Class Rule** when racing, and at other times as required by the **AC75 Class Rule** and the **Protocol**.

#### **Interpretation 008 Excerpt**

...types of penetrations fall into two categories:

1. Penetrations by **control systems** or instrumentation cables which are practically completely filling the volume by **control systems** or instrumentation cables and as described in preface B.2. fulfil stipulation of preface B.2.a and do not constitute openings for the purpose of the dimensional area, areal and location constraints of Rule 20.4.
2. Penetrations by **control systems** or instrumentation cables which are not practically completely filling the volume by **control systems** or instrumentation cables and as described in preface B.2., fulfil stipulation of preface B.2.b and constitute openings for the purpose of the dimensional area, areal and location constraints of Rule 20.4.

Passages of **control systems** or instrumentation cables which are leaving a gap or a void around the control system or the instrumentation cable are not fulfilling the provisions of a penetration.

#### **Oxford English Dictionary References**

##### ***practically, adv.***

1. In a practical manner; in practice; as a matter of fact, actually; in reality (frequently opposed to theoretically, speculatively, or formally). Formerly also: †effectively, as seen in practice (opposed to nominally, professedly) (obsolete).

2. So far as concerns practice; for practical purposes; to all intents and purposes, as good as; almost; in effect, virtually.

##### ***completely, adv.***

In a complete manner; fully, perfectly; entirely, wholly, thoroughly.

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### Questions:

Interpretation 008 states that a penetration does not constitute an opening if it is “practically completely filled” leaving no gap or void around the control system or instrumentation cable.

1. If a control system or instrumentation cable passes through a penetration, leaving a small clearance gap around it in order that it can slide through the penetration, is the small clearance gap a “gap or void around the control system or instrumentation cable”?
2. If the Measurement Committee can detect any transverse (not aligned with the cable) movement or play of a control system or instrumentation cable through a penetration, is it possible for the penetration to be “practically completely filling” the penetration?
3. A control system or instrumentation cable that practically completely fills a penetration when measured may reduce its cross-sectional area when under tension, changing it from being in a configuration without openings when measured to being in a configuration with openings under load. Class Rule 1.3 states that an **AC Class Yacht** shall comply with the **AC75 Class Rule** when racing. Is an **AC Class Yacht** required to comply with Interpretation 008 when racing?

### Interpretation:

### Answers:

1. Yes. If a control system or instrumentation cable constitutes a penetration by including a small clearance gap at any location around it in order that it can slide through the penetration, this small clearance is considered a “gap or void around the control system or instrumentation cable”.  
  
This is for example considered the case for clearance around a rope to allow low friction operation.  
  
This shall however not exclude for example the possibility to install an electrical cable, a static hydraulic pipe or a fiber optic cable with no gap or void around it.
2. No, see answer 1.
3. An Interpretation indicates how the AC Class Rule should be interpreted, and since Rule 1.3 states that the AC Class Rule must apply when racing, any interpretation of that Rule must also apply when racing.

END