



# Data Model for the Exchange of Harness Components

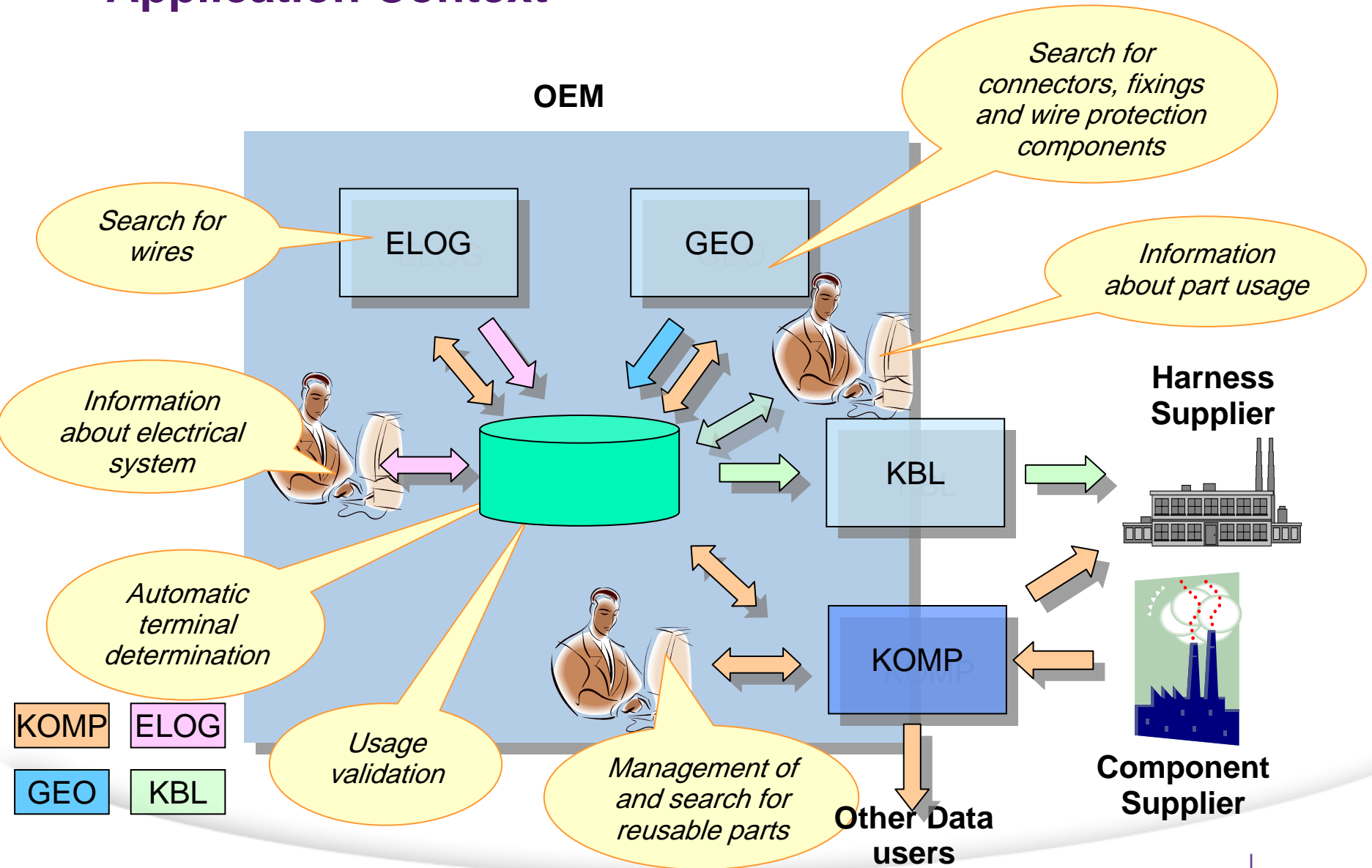
**Version 1.0**

VDA AK CAD/CAM  
WG Car Electric  
2008-01-02

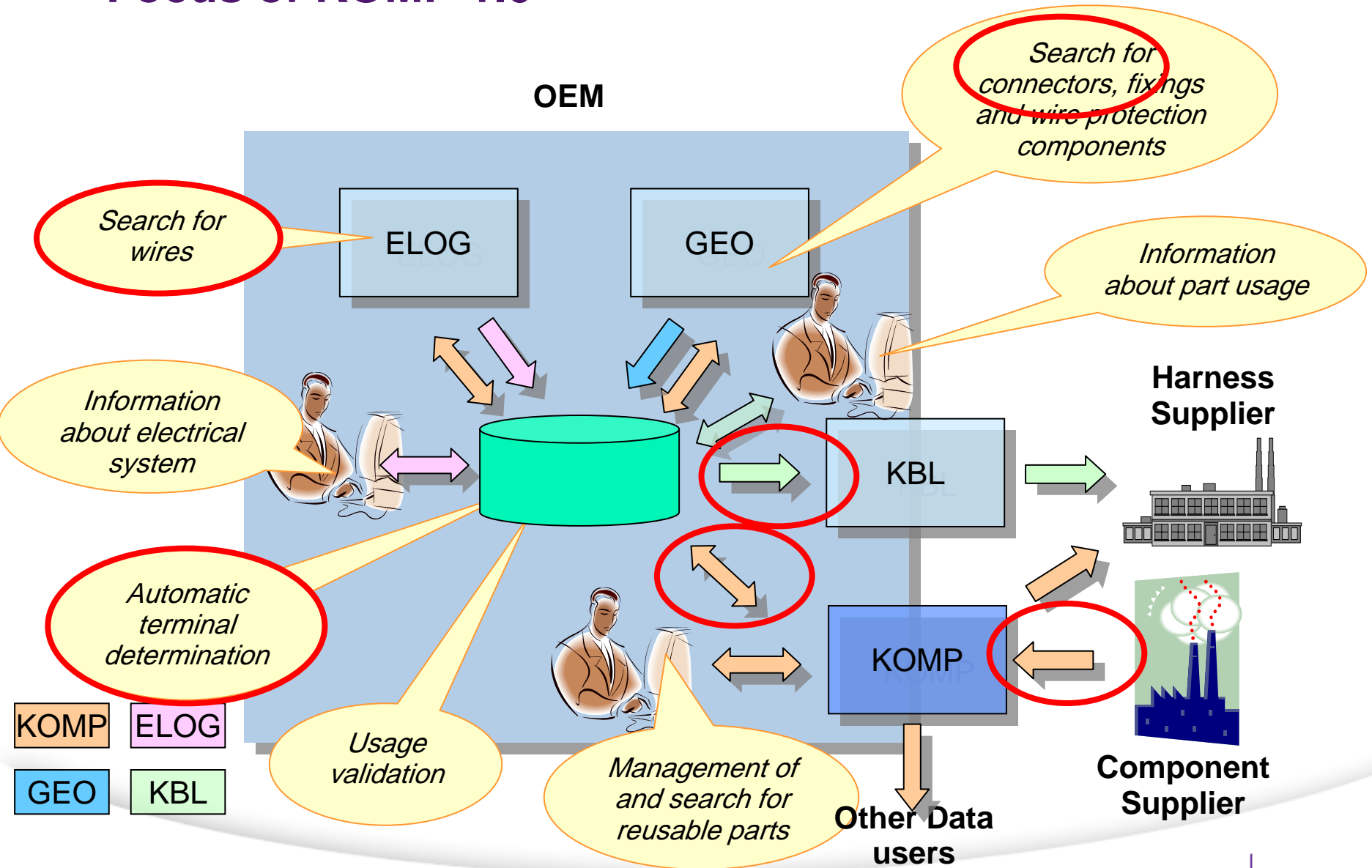
# Main Use Cases

- Import component descriptions into component databases
- Data source for KBL master data
- Data source for automatic terminal, seal and plug determination
- Search for harness parts (e.g. connectors, fixings, wire protections, ...)
- Data source for various harness analysis options (e.g. copper weight)

# Application Context



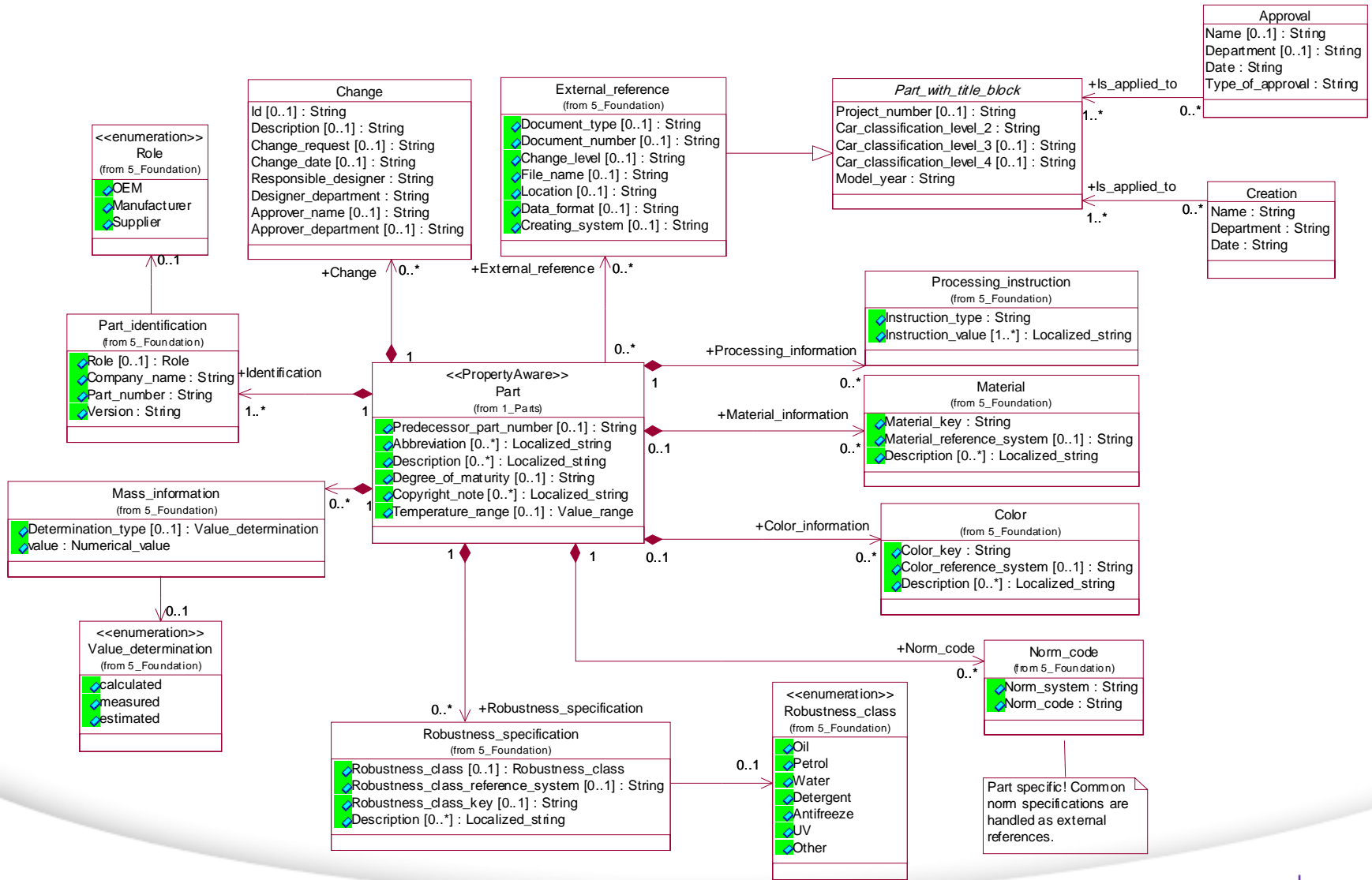
# Focus of KOMP 1.0



# General information

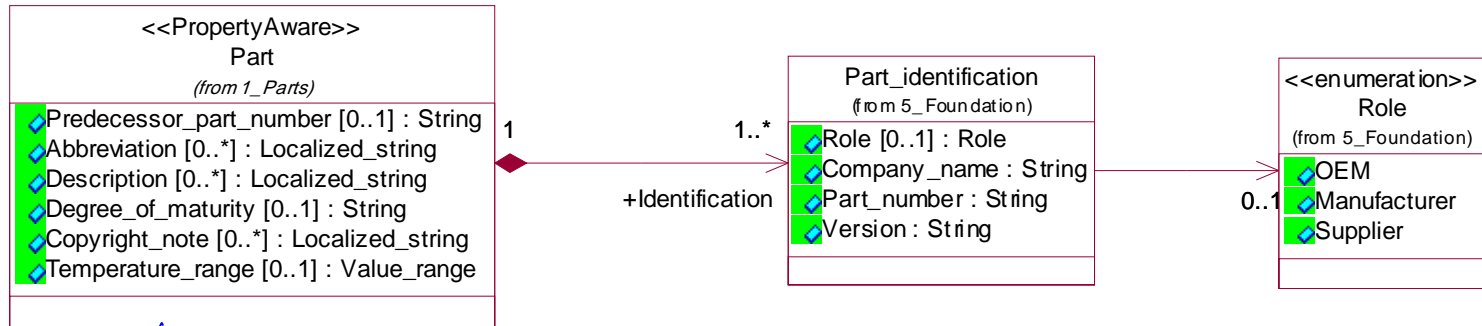
- Only parts are considered which may be part of a harness
  - Only attributes are considered which are relevant for harness engineering
  - Exception: Interfaces to EE-Components
- No part usage specific information is exchanged
- One exchange file may contain only one version of a part
- A part may be specified differently by different application roles (e.g. OEM, harness supplier, component supplier). The differences may concern
  - The part identification (i.e. a part can only be identified by company name part number and version)
  - The bill of material (i.e. the assembly structure)
  - Attribute values (i.e. technical specifications)
- Every part may be an accessory part to any other part.
- The model information must facilitate automatic terminal determination
- Descriptions may be exchanged multi-lingual

# Common part master data

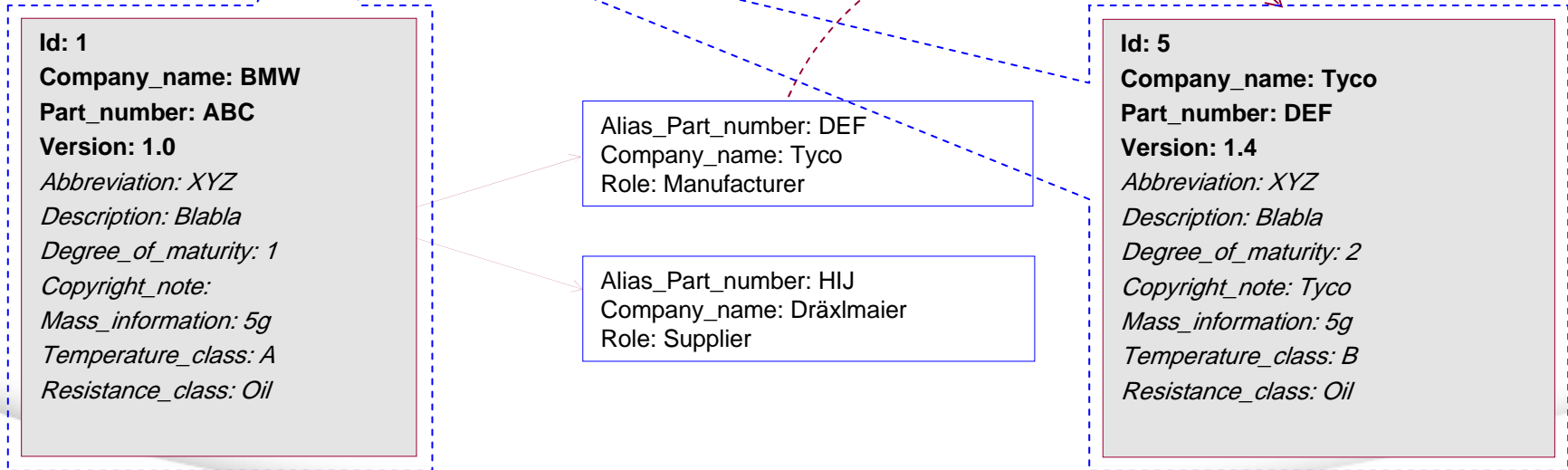


# Part identification

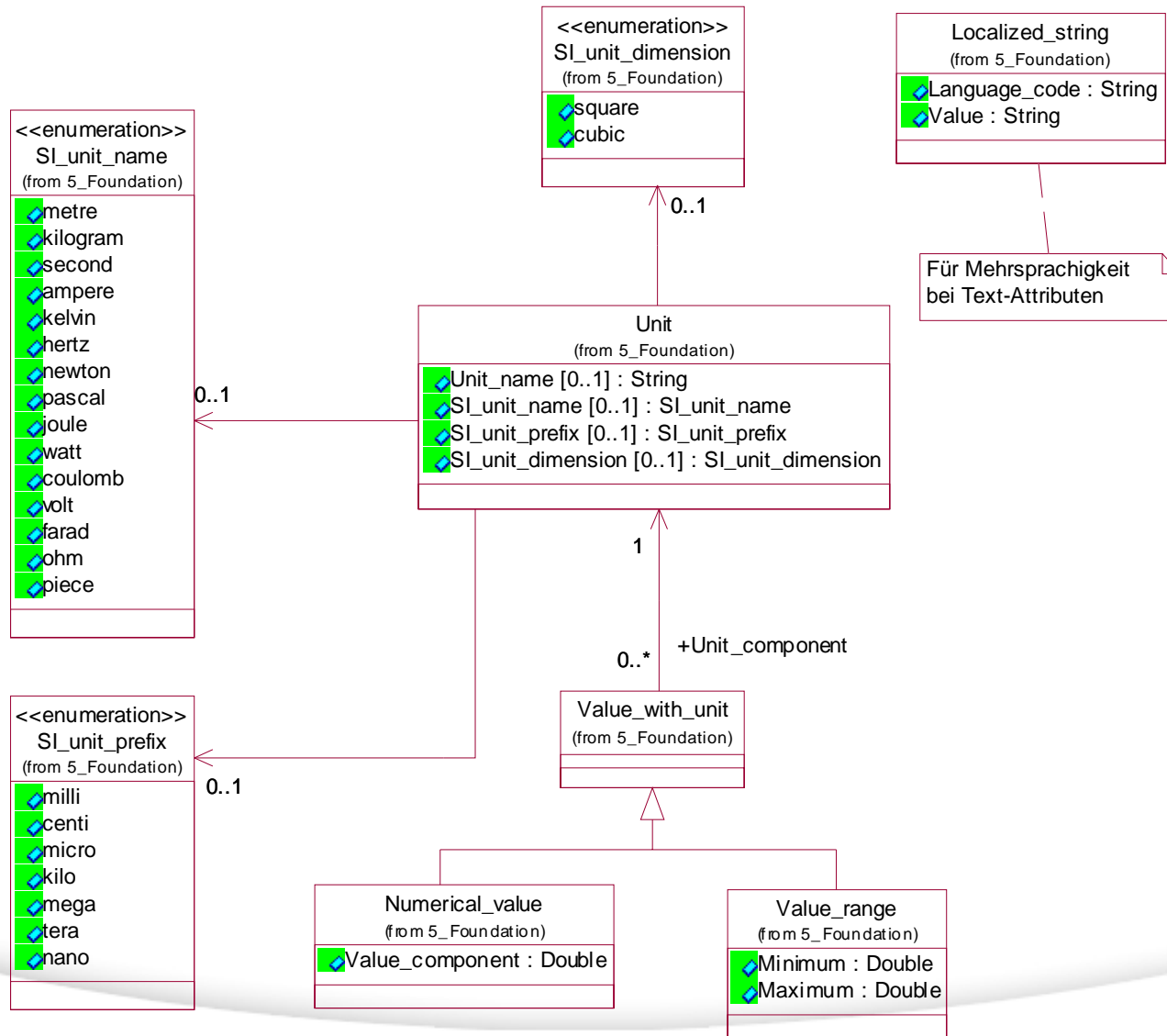
One part may be described differently by different companies



Example:

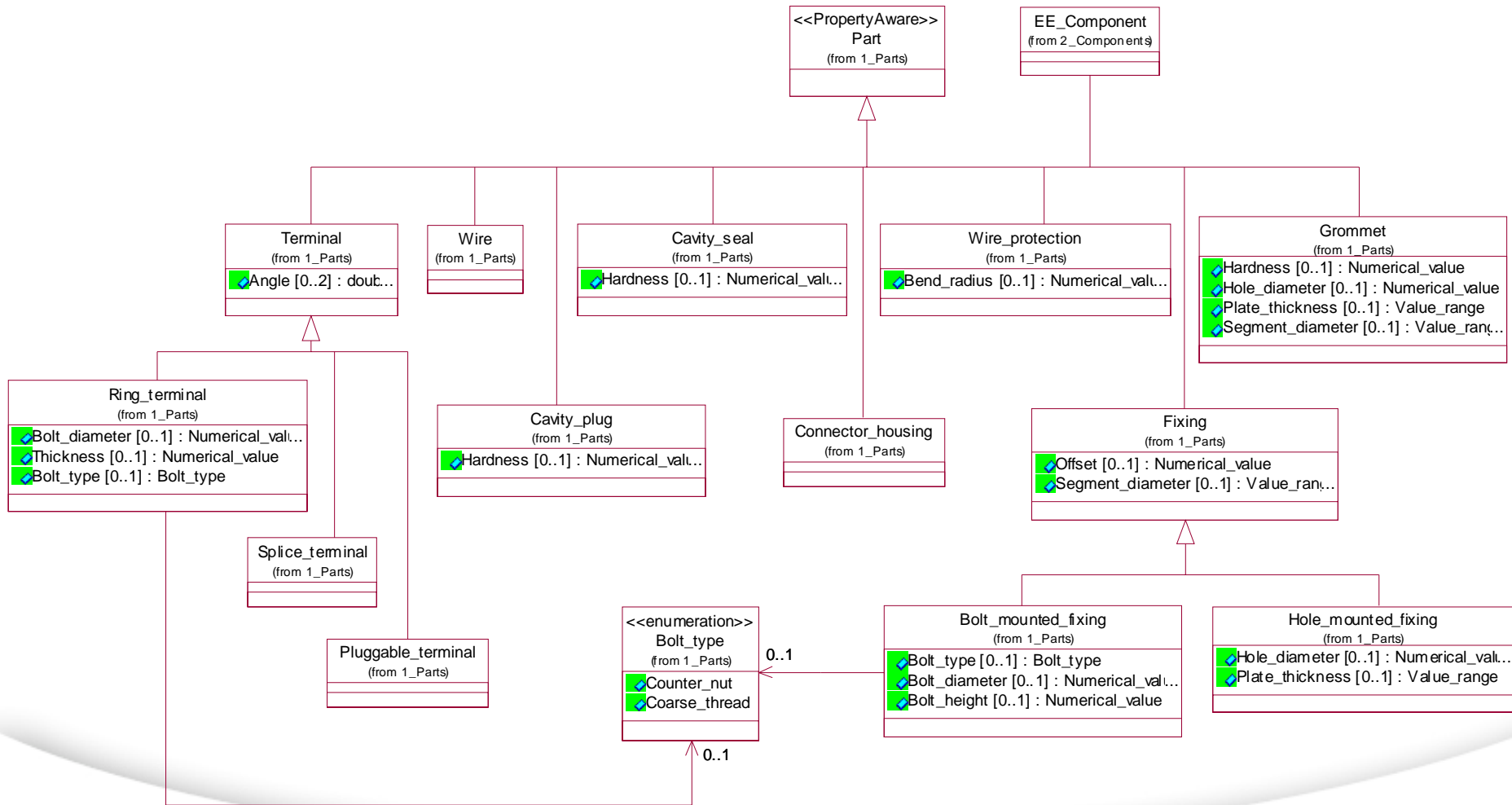


# Common data types

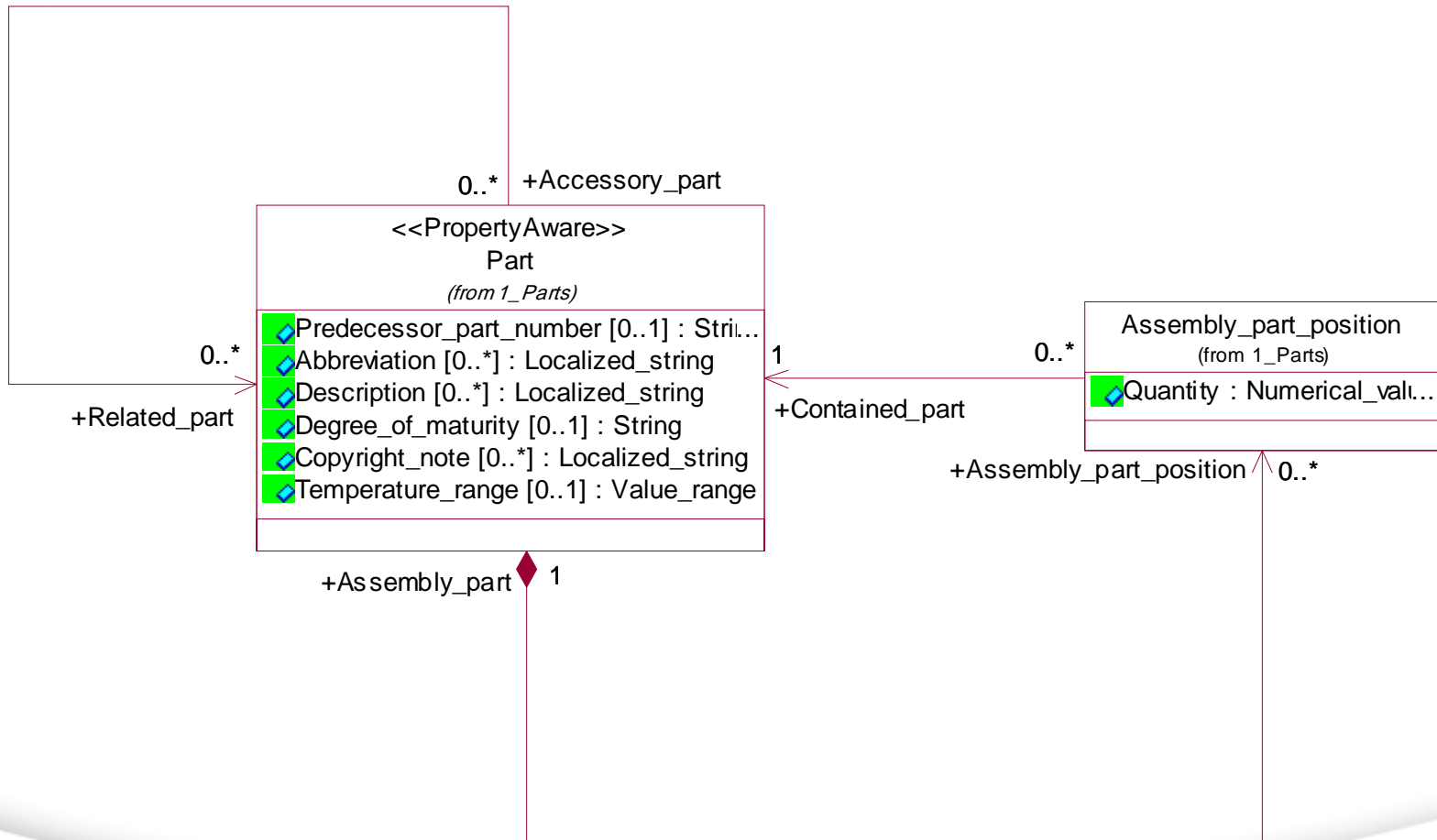




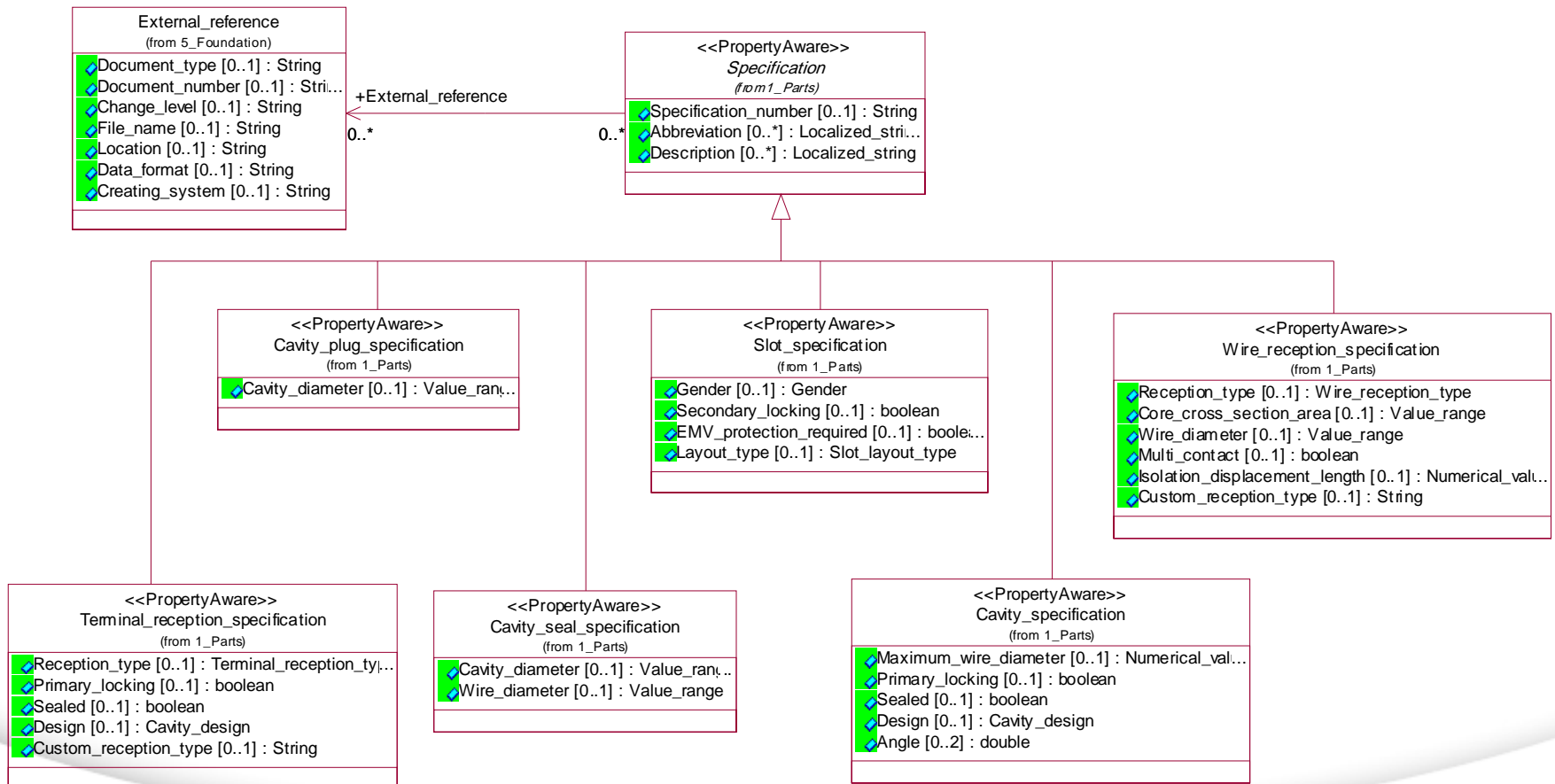
# Part specializations



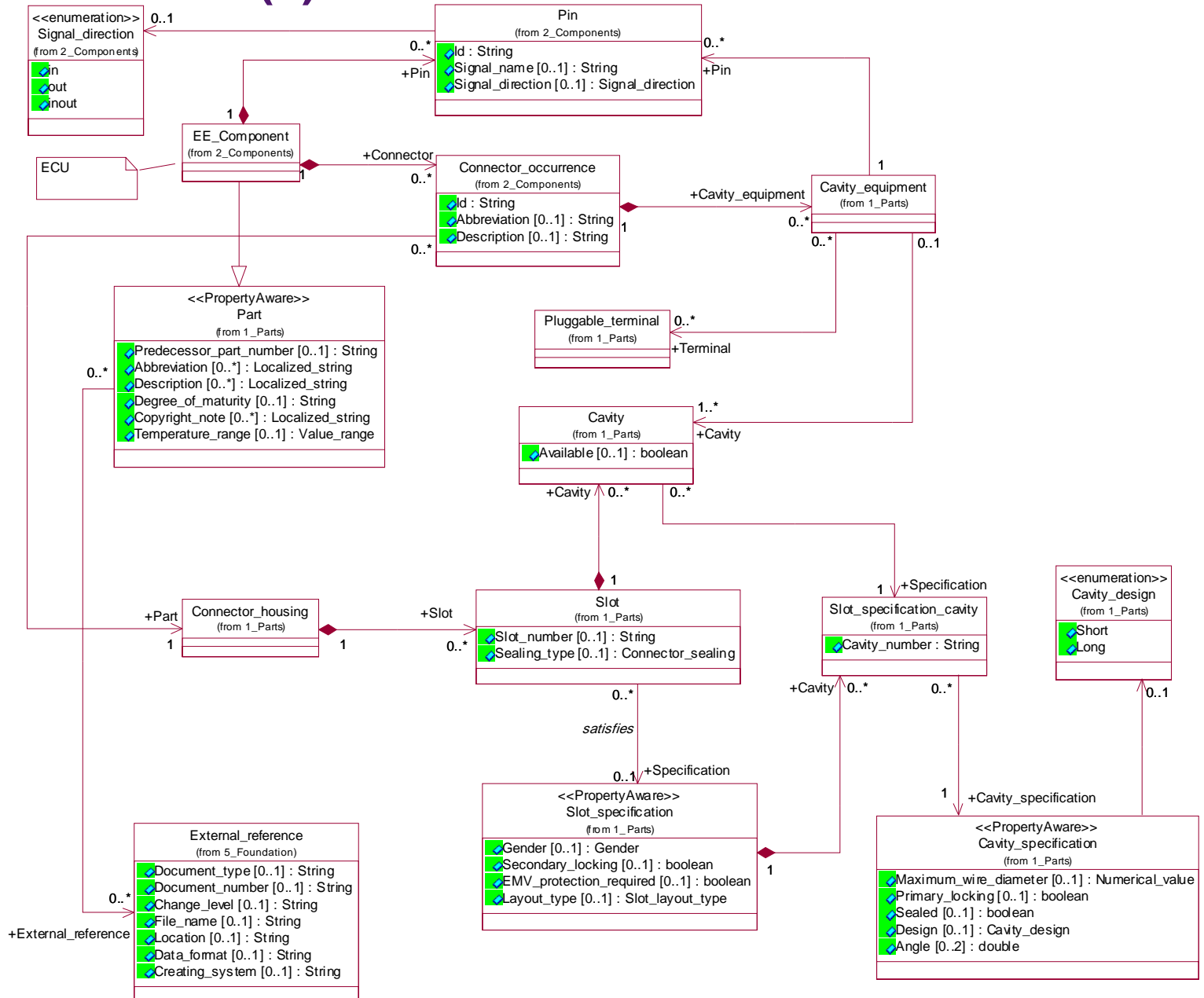
# Assemblies and accessory parts



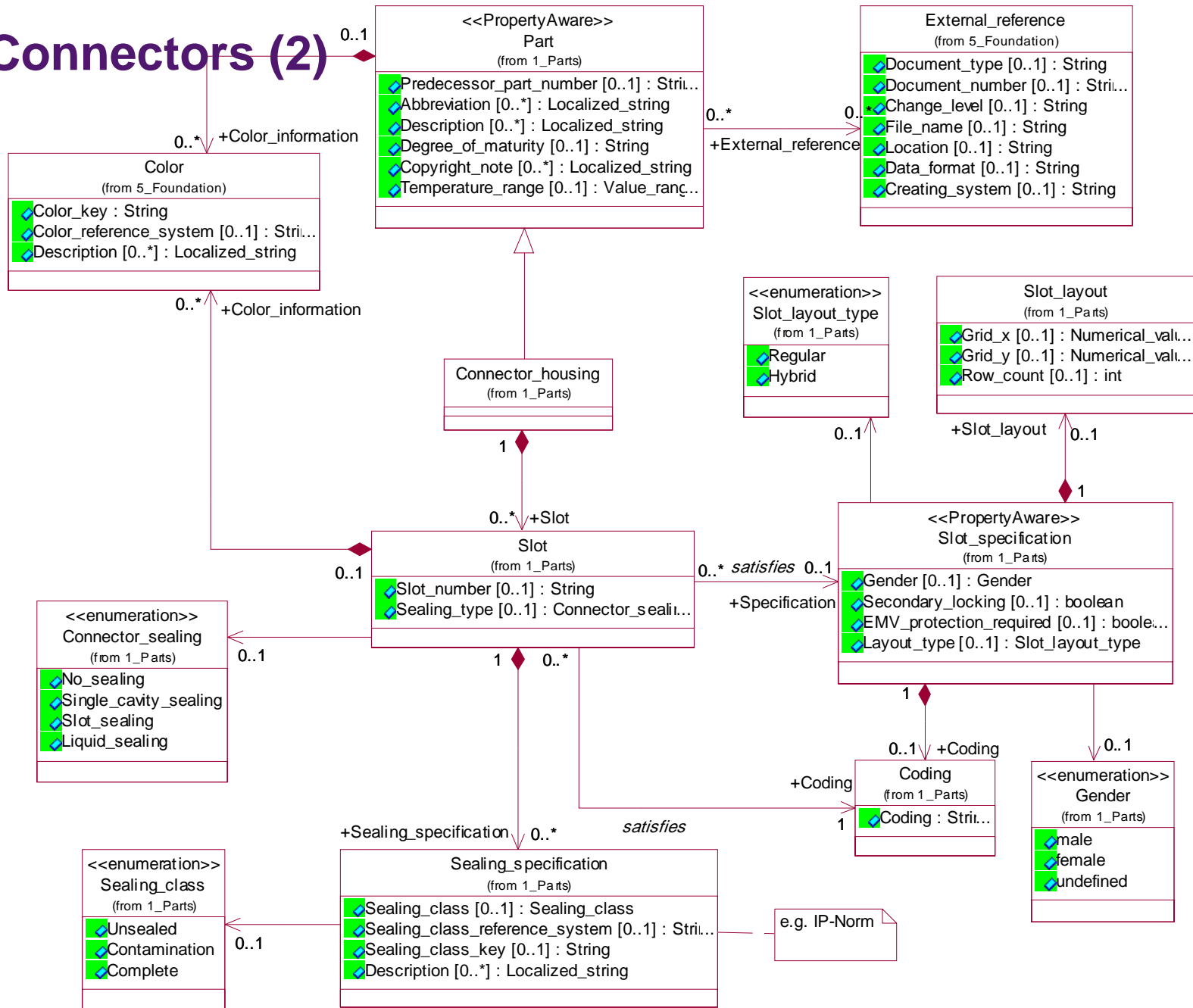
# Specification specializations



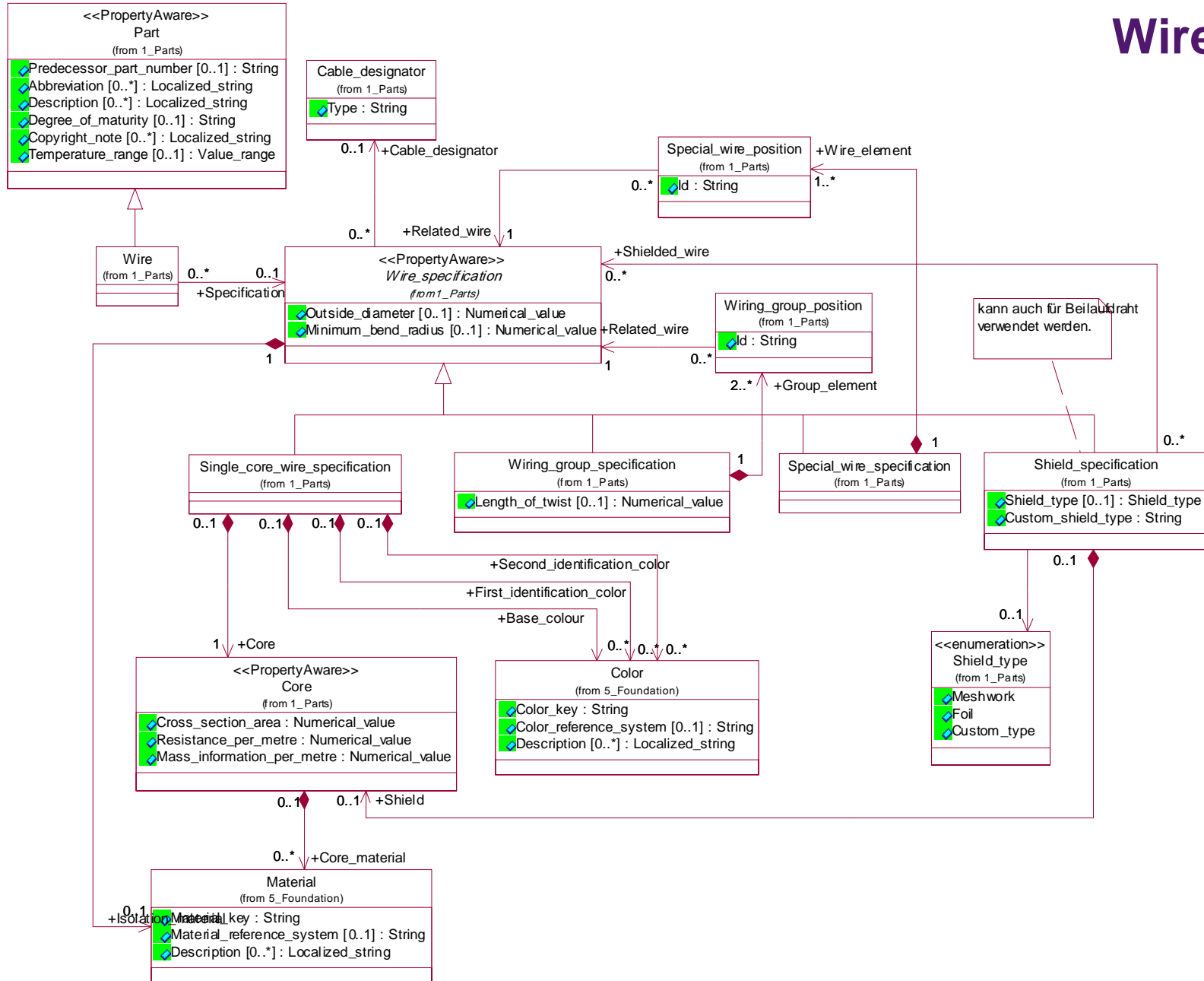
# Connectors (1)

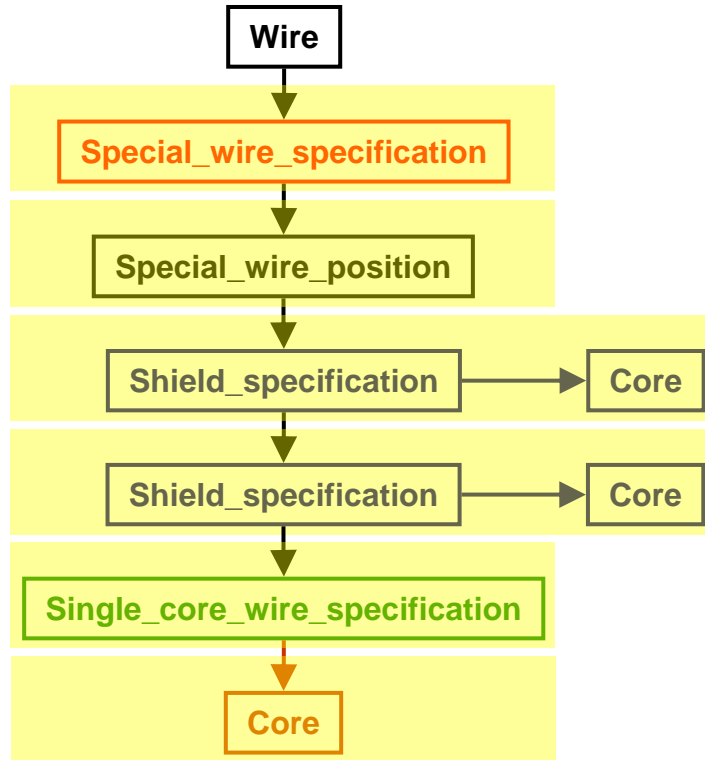
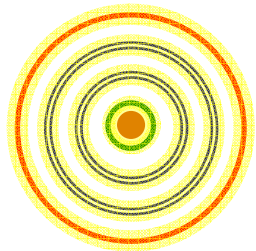
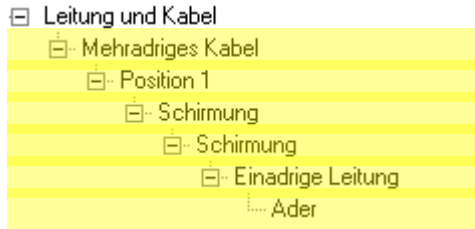


# Connectors (2)






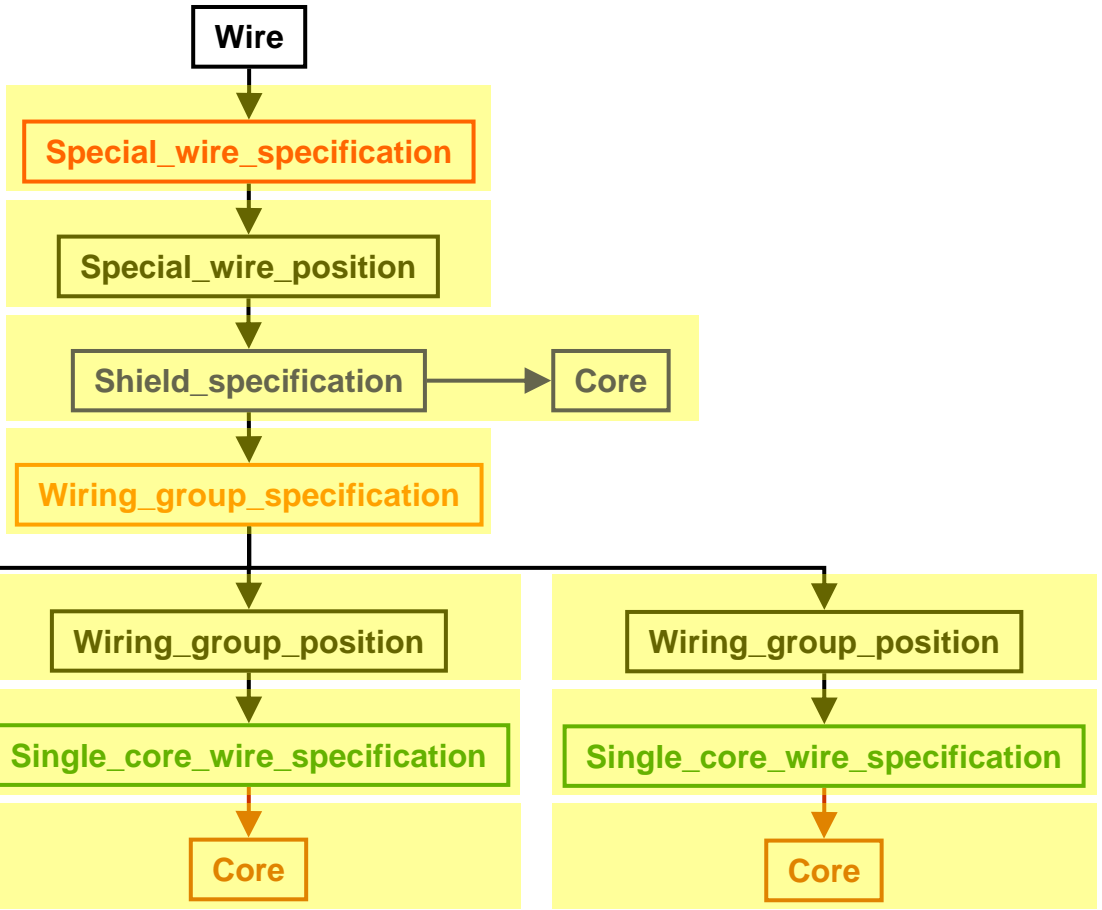
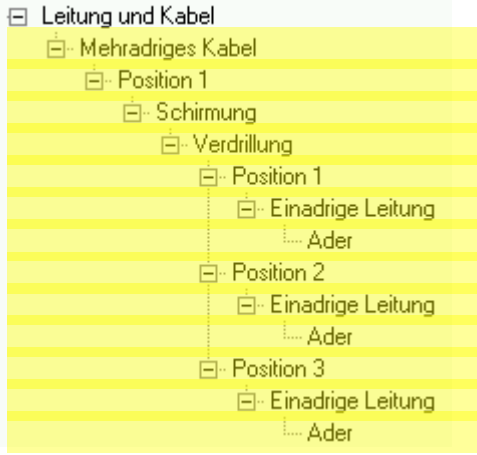
# Wires





**Legend**

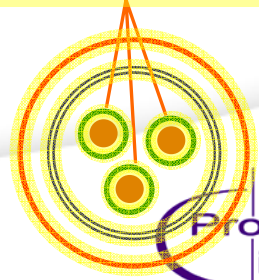
-  **Special\_wire (multi-core wire)**
-  **Shield**
-  **Single\_core\_wire with Core**



**Legend**

- **Special\_wire (multi-core wire)**
- **Shield**
- **Single\_core\_wire with Core**

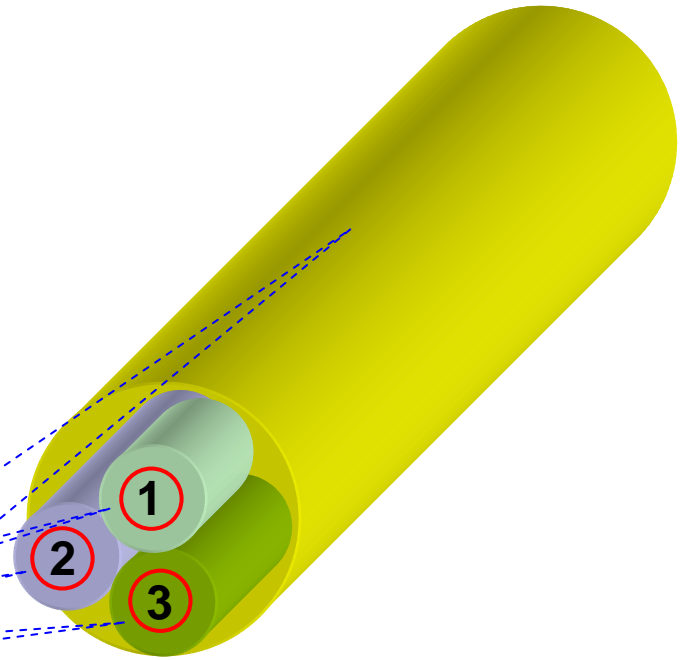
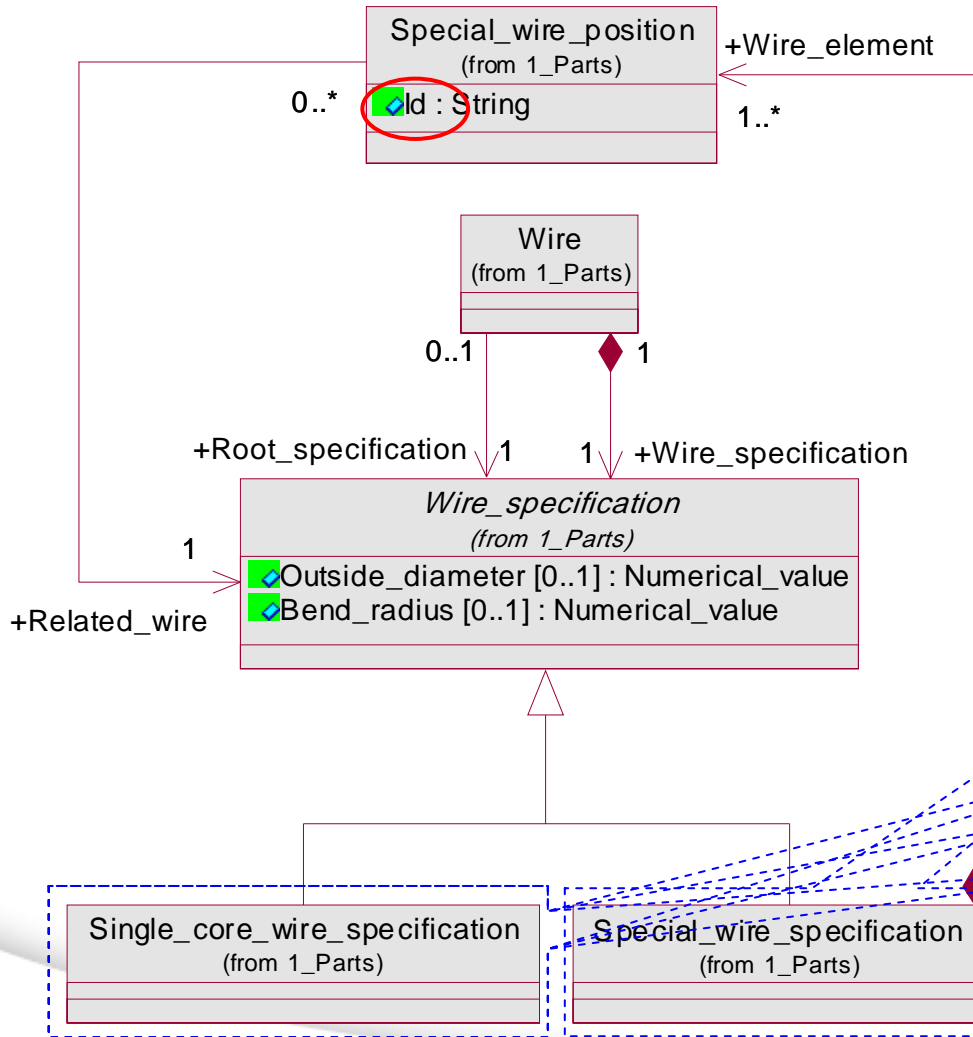
Wiring\_group (Verdrillung)





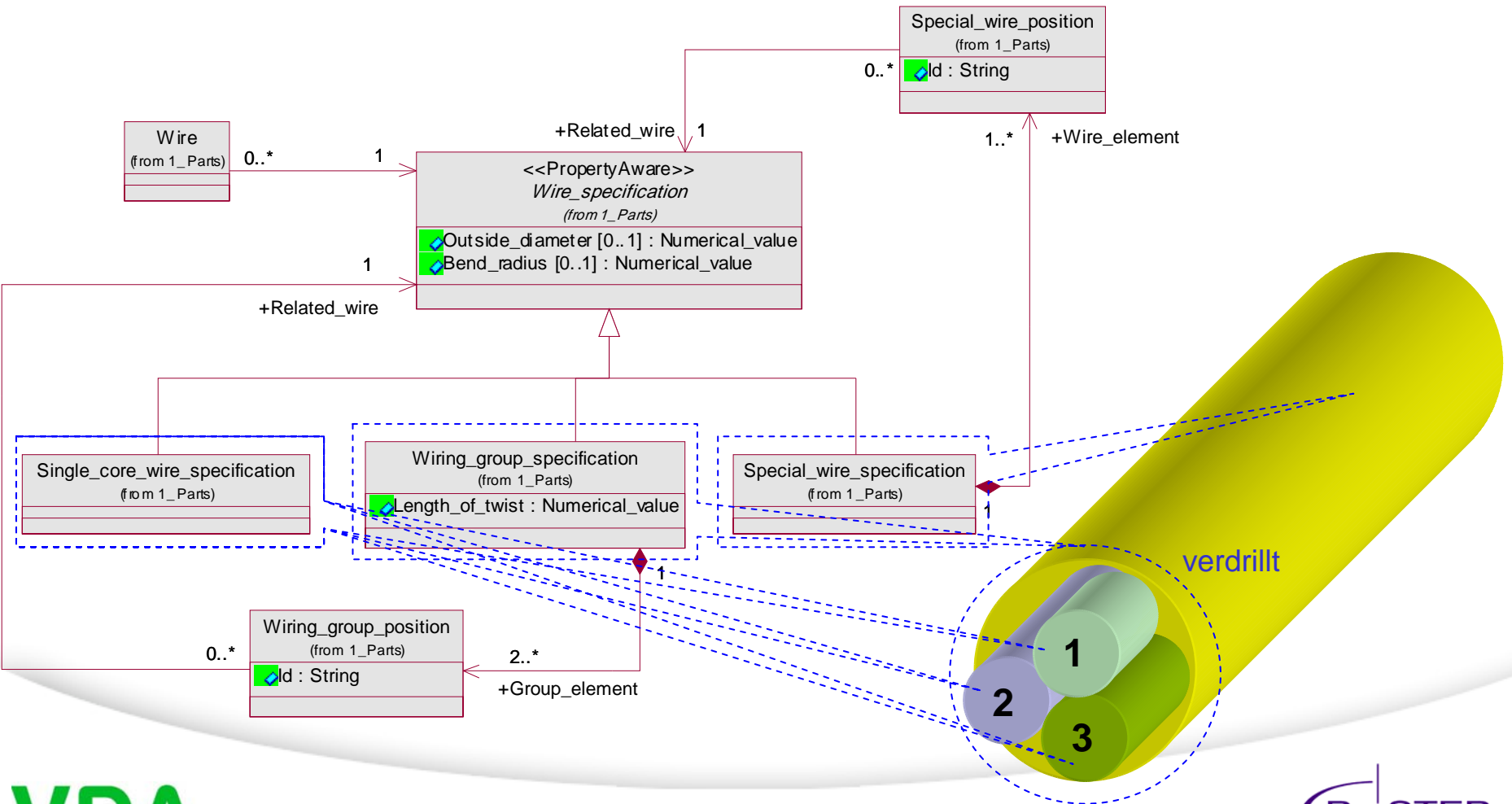
# Multi-core wires

Complete current data model see Wires!

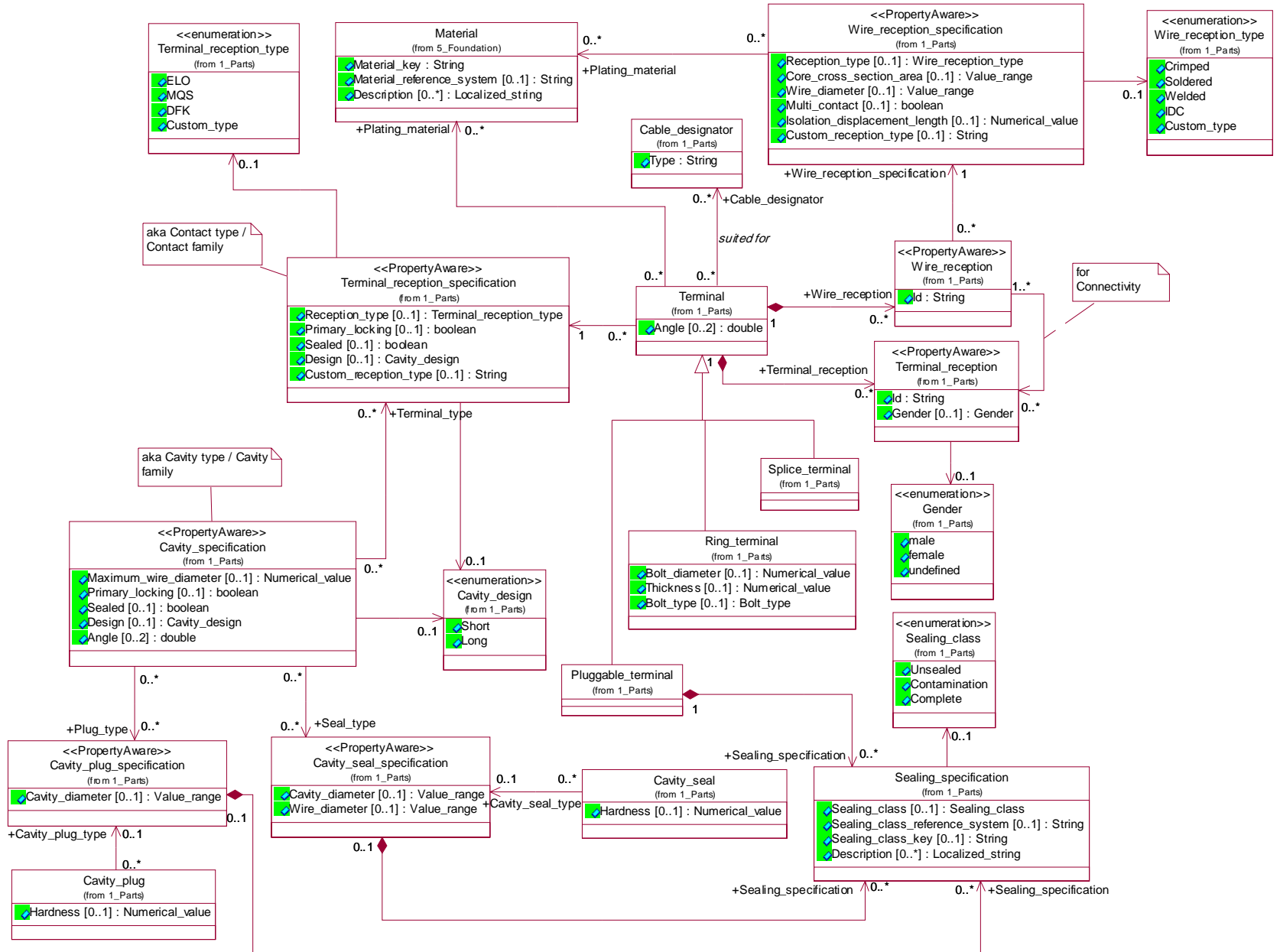


# Structure of multi-core wires

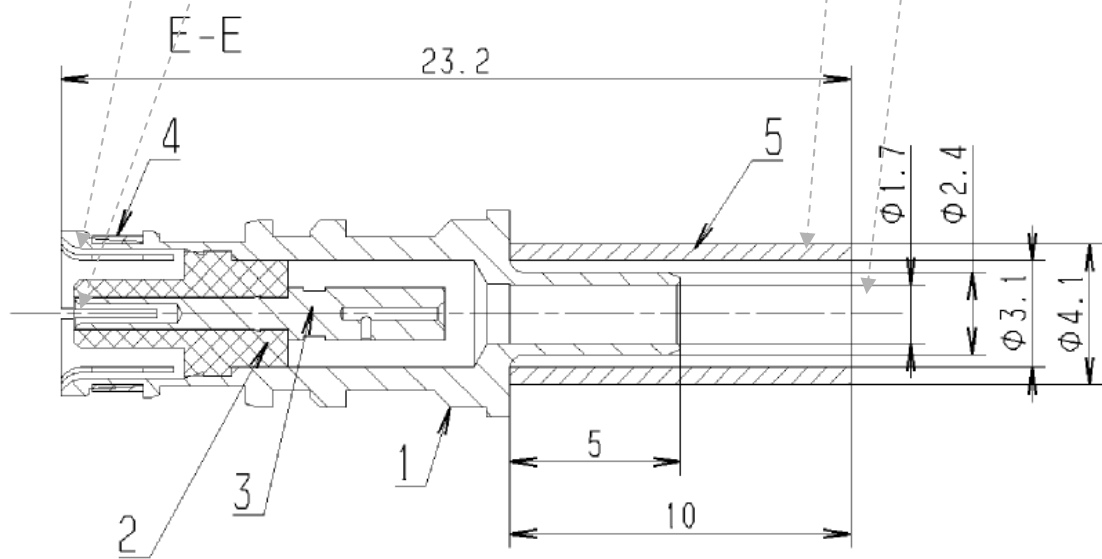
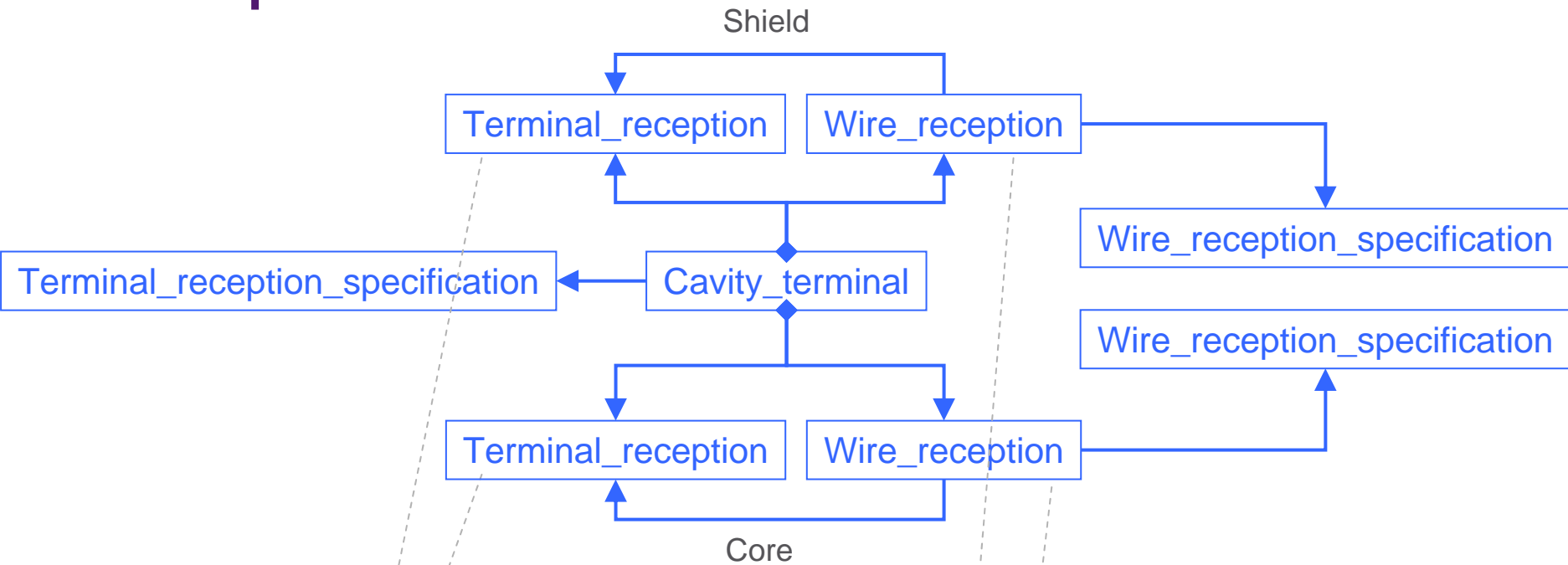
Complete current data model see Wires!



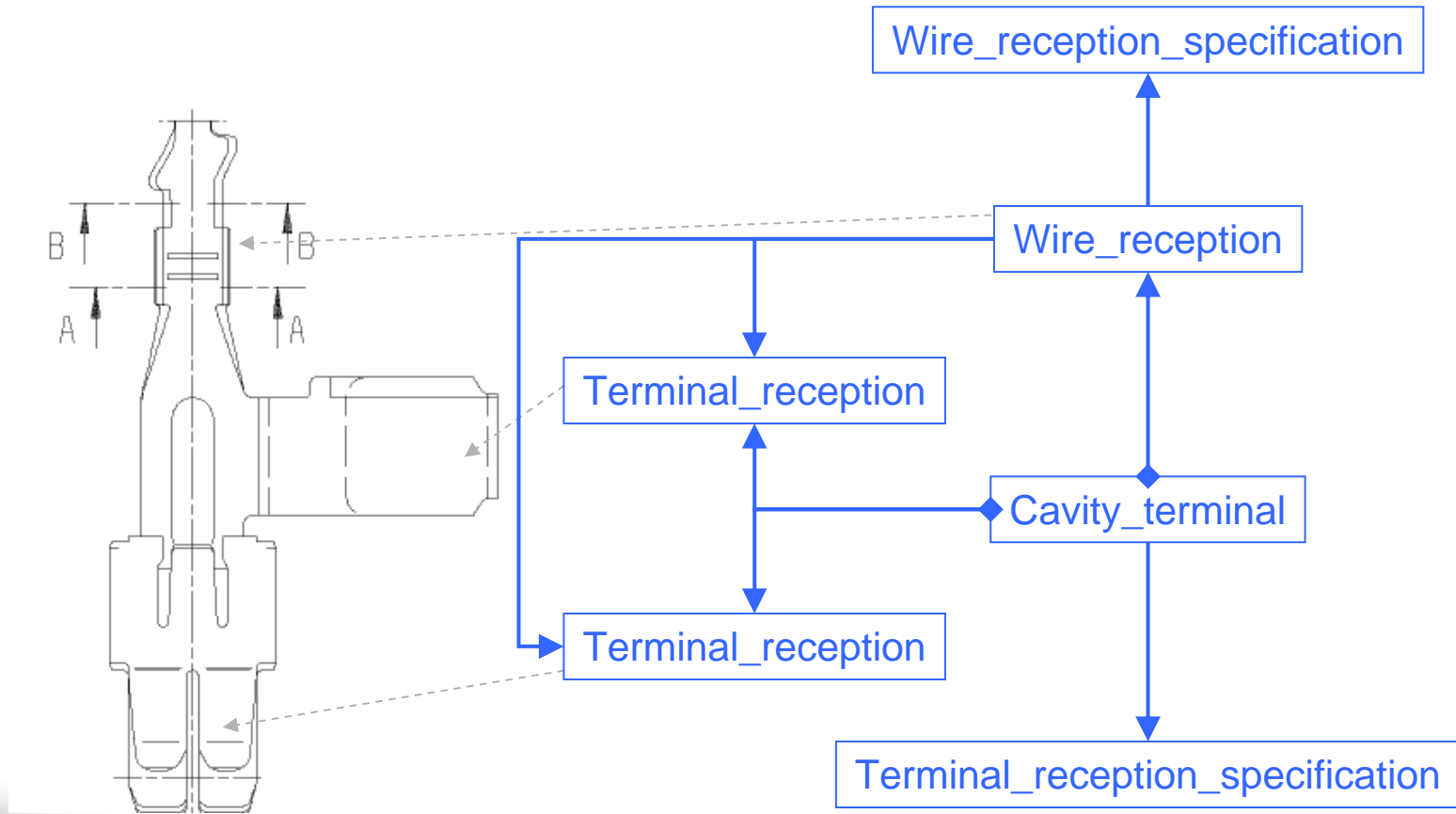
# Contacting



# Example: coax terminal

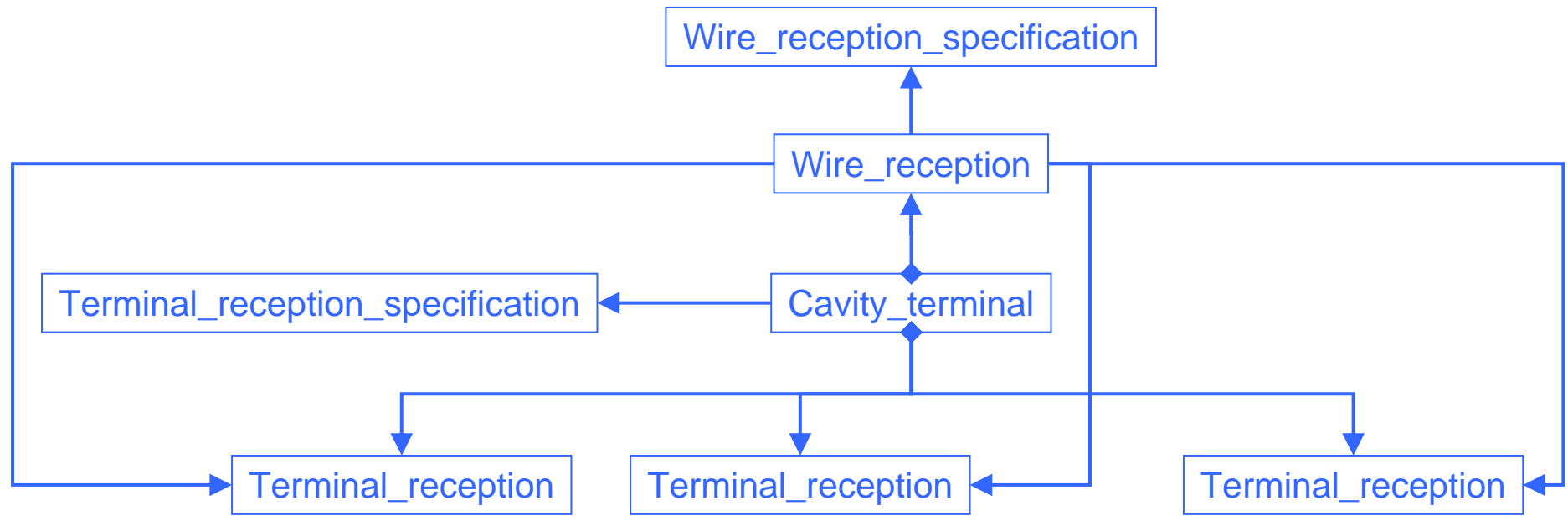


# Example: double-contact terminal

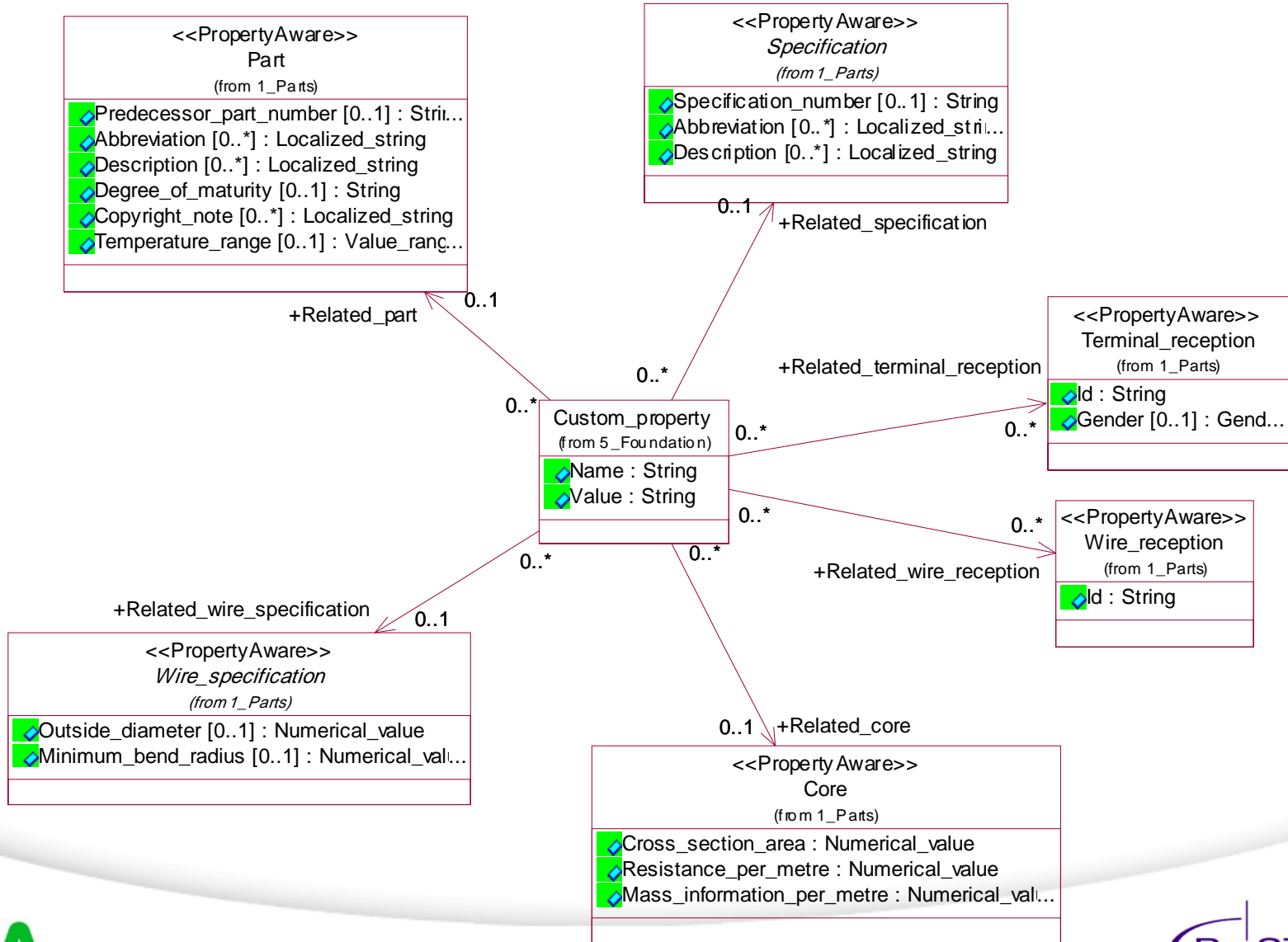


The specification is the same for both Terminal\_receptions.

# Example: terminal bridge



# User-defined properties



# XML-Structure

