



# Type Comparisons TDL #219

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# PSE and PD Type Comparisons

- The PSE and PD Type comparisons enabled a reader to, at a glance, compare PSE and PD Types

# Draft 2.2 Comparison Tables

Table 33–2—Permissible PSE Types

PSE Type	Supports 4-pair power	Range of maximum Classes supported <sup>1</sup>	Short MPS support <sup>2</sup>	Physical Layer Classification <sup>1</sup>	Data Link Layer Classification <sup>1</sup>	Autoclass <sup>3</sup>
Type 1	No	Class 3	No	Optional Single-Event	Optional	No
Type 2	No	Class 4	No	Single-Event	Mandatory	No
Type 2	No	Class 4	No	Multiple-Event	Optional	No
Type 3	Optional	Class 3 to 4	Yes	Multiple-Event	Optional	Optional
Type 3	Yes	Class 3 to 6	Yes	Multiple-Event	Optional	Optional
Type 4	Yes	Class 8	Yes	Multiple-Event	Optional	Optional

<sup>1</sup>See 33.2.7, Table 33–13

<sup>2</sup>See 33.2.10

<sup>3</sup>See 33.2.7.3 and 33.3.6.3

# Draft 2.4 Comparison Tables

Table 145–2—PSE supported parameters

PSE Type	Supports 4-pair power	Range of maximum Class supported <sup>a</sup>	Short MPS support <sup>b</sup>	Physical Layer Classification <sup>a</sup>	Data Link Layer Classification <sup>a</sup>	Autoclass <sup>c</sup>
Type 3	Optional	Class 3 to 4	Yes	Multiple-Event	Optional	Optional
Type 3	Yes	Class 5 to 6	Yes	Multiple-Event	Optional	Optional
Type 4	Yes	Class 8	Yes	Multiple-Event	Optional	Optional

<sup>a</sup>See 145.2.7, Table 145–11 and Table 145–12

<sup>b</sup>See 145.2.10

<sup>c</sup>See 145.2.7.2 and 145.3.6.2



# Option 1 – Replace Table 145-2

Table 145–2—PSE supported parameters

PSE Type	Supports 4-pair power	Range of maximum Class supported <sup>a</sup>	Short MPS support <sup>b</sup>	Physical Layer Classification <sup>a</sup>	Data Link Layer Classification <sup>a</sup>	Autoclass <sup>c</sup>
Type 1	No	Class 3	No	Optional Single-Event	Optional	No
Type 2	No	Class 4	No	Single-Event	Mandatory	No
Type 2	No	Class 4	No	Multiple-Event	Optional	No
Type 3	Optional	Class 3 to 4	Yes	Multiple-Event	Optional	Optional
Type 3	Yes	Class 3 to 6	Yes	Multiple-Event	Optional	Optional
Type 4	Yes	Class 8	Yes	Multiple-Event	Optional	Optional

<sup>a</sup>See 145.2.7, Table 145–11 and Table 145–12

<sup>b</sup>See 145.2.10

<sup>c</sup>See 145.2.7.2 and 145.3.6.2

# Option 1 – Replace Table 145-18

Table 145–18—PD supported parameters

PD Type	Single- or dual-signature	PD Class	4-pair Capable	Short/ Long MPS support	Physical Layer Classification	Data Link Layer Classification	Optional Capabilities
Type 1	—	0 to 3	Optional	Long	Single-Event	Optional	—
Type 2	—	4	Optional	Long	Multiple-Event	Mandatory	—
Type 3	Single	1 to 3	Mandatory	Both	Single-Event	Optional	Autoclass
		4 to 6	Mandatory	Both	Multiple-Event	Mandatory	Autoclass
	Dual	1 to 3	Mandatory	Both	Multiple-Event	Optional	—
		4	Mandatory	Both	Multiple-Event	Mandatory	—
Type 4	Single	7 to 8	Mandatory	Both	Multiple-Event	Mandatory	Autoclass
	Dual	5	Mandatory	Both	Multiple-Event	Mandatory	—

NOTE 1—See Table 145–24 and Table 145–25 for the allowed PD power for each Type and Class.

NOTE 2—Data Link Layer classification for dual-signature PDs is optional only if the PD requested Class on both Modes is less than or equal to 3.

# Option 2 – Create New Annex Page 1

## Annex 145C

(informative)

### Type Comparisons

### 145C.1 PSE Types

Table 145C-1 —PSE supported parameters

PSE Type	Supports 4-pair power	Range of maximum Class supported <sup>a</sup>	Short MPS support <sup>b</sup>	Physical Layer Classification <sup>a</sup>	Data Link Layer Classification <sup>a</sup>	Autoclass <sup>c</sup>
Type 1	No	Class 3	No	Optional Single-Event	Optional	No
Type 2	No	Class 4	No	Single-Event	Mandatory	No
Type 2	No	Class 4	No	Multiple-Event	Optional	No
Type 3	Optional	Class 3 to 4	Yes	Multiple-Event	Optional	Optional
Type 3	Yes	Class 3 to 6	Yes	Multiple-Event	Optional	Optional
Type 4	Yes	Class 8	Yes	Multiple-Event	Optional	Optional

<sup>a</sup>See 145.2.7, Table 145–11and Table 145–12

<sup>b</sup>See 145.2.10

<sup>c</sup>See 145.2.7.2 and 145.3.6.2

# Option 2 – Create New Annex Page 2

## 145C.2 PD Types

**Table 145C-2—PD supported parameters**

PD Type	Single- or dual-signature	PD Class	4-pair Capable	Short/ Long MPS support	Physical Layer Classification	Data Link Layer Classification	Optional Capabilities
Type 1	—	0 to 3	Optional	Long	Single-Event	Optional	—
Type 2	—	4	Optional	Long	Multiple-Event	Mandatory	—
Type 3	Single	1 to 3	Mandatory	Both	Single-Event	Optional	Autoclass
		4 to 6	Mandatory	Both	Multiple-Event	Mandatory	Autoclass
	Dual	1 to 3	Mandatory	Both	Multiple-Event	Optional	—
		4	Mandatory	Both	Multiple-Event	Mandatory	—
Type 4	Single	7 to 8	Mandatory	Both	Multiple-Event	Mandatory	Autoclass
	Dual	5	Mandatory	Both	Multiple-Event	Mandatory	—

NOTE 1—See Table 145–24 and Table 145–25 for the allowed PD power for each Type and Class.

NOTE 2—Data Link Layer classification for dual-signature PDs is optional only if the PD requested Class on both Modes is less than or equal to 3.



## Option 2 – Pointers to new text

In 33.2 add a new paragraph

"See Table 145C.1 for supported PSE parameters for all PSE Types."

immediately following "A PSE is electrically specified at the point of the physical connection to the cabling."

In 145.2.1, add:

"See Table 145C.1 for supported PSE parameters for all PSE Types."

immediately following "Table 145–2 summarizes the supported parameters of PSEs."

In 33.3.2, add a new paragraph:

"See Table 145C.2 for supported PD parameters for all PD Types."

immediately following "PDs can be categorized as either Type 1 or Type 2."

In 145.3.1, add:

"See Table 145C.2 for supported PD parameters for all PD Types."

immediately following "Table 145–18 shows the supported parameters of PDs."